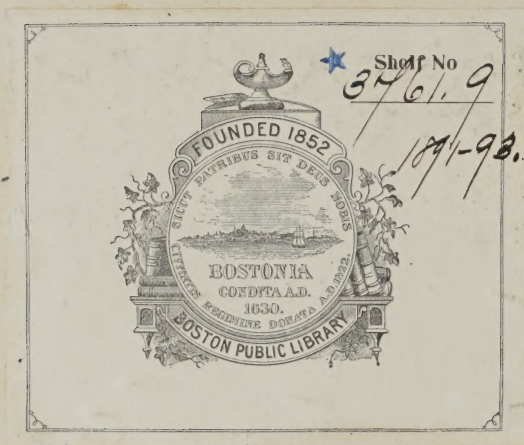


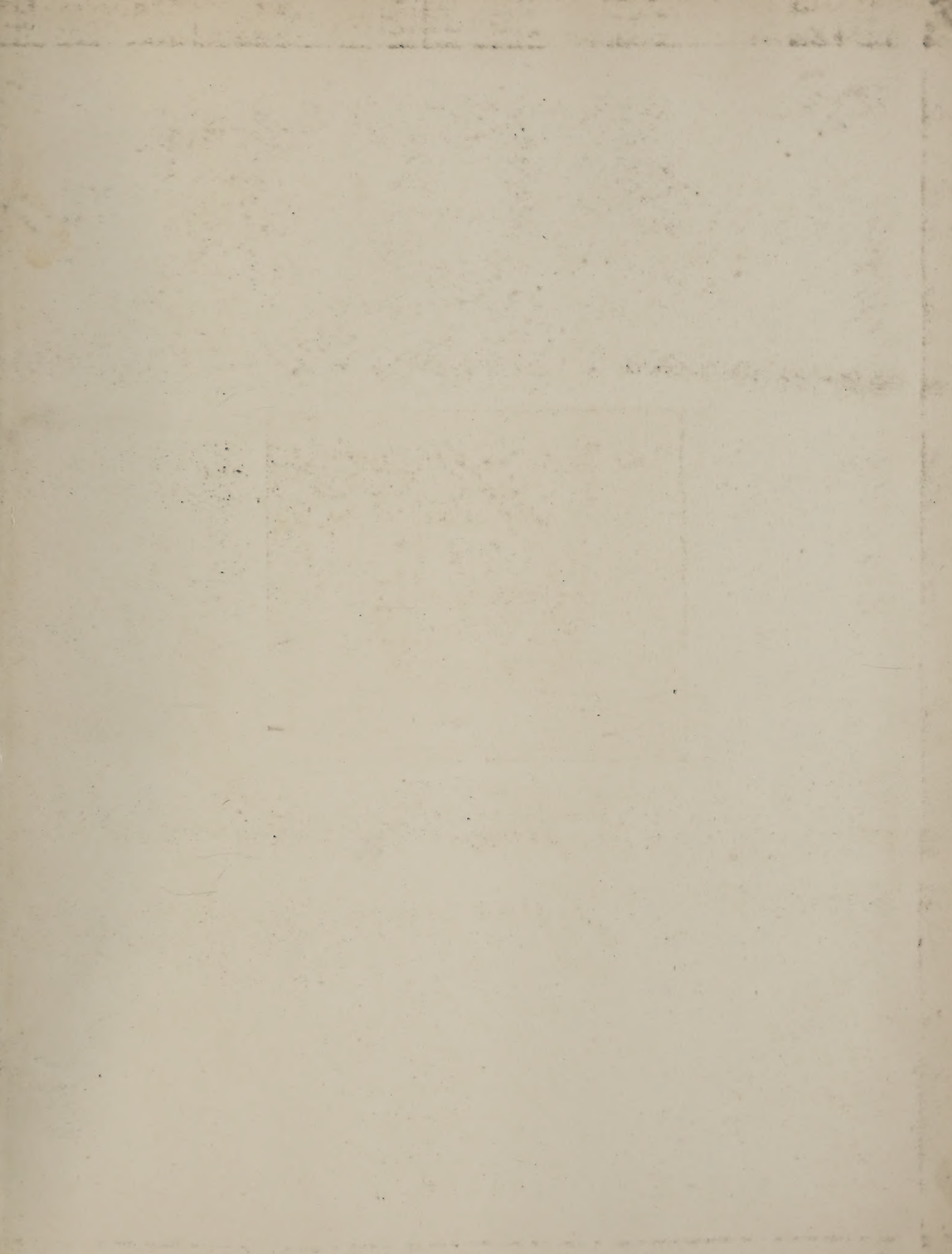
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# OFFICE OF THE BOARD OF HEALTH OF THE CITY OF BOSTON.

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## Statement of Mortality for the month of January, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

Chairman.

BOSTON PUBLIC LIBRARY

Deaths during the month of January, 1891, . . . . . 894  
Population by National Census, 448,477. . . . . Rate per 1,000 inhabitants, 23.92

Total number . . . . . 894

### SEX.

Males . . . . . 450

Females . . . . . 444

### CONDITION.

Married . . . . . 290

Single . . . . . 461

Widows . . . . . 100

Widowers . . . . . 36

Unknown . . . . . 7

### COLOR.

White . . . . . 867

Colored . . . . . 27

Total deaths of children { Under 1 year . . . . . 177  
Under 2 years . . . . . 232  
Under 5 years . . . . . 282

Diarrhoeal diseases { Under 1 year . . . . . 6  
Under 2 years . . . . . 6  
Under 5 years . . . . . 6  
All ages . . . . . 8

### NATIVITY.

United States . . . . . 596

Ireland . . . . . 164

England . . . . . 22

Scotland . . . . . 10

Germany . . . . . 11

British America . . . . . 56

Italy . . . . . 9

Other Countries . . . . . 17

Unknown . . . . . 9

### PARENTAGE.

United States . . . . . 233

Irish . . . . . 291

English . . . . . 28

Scotch . . . . . 19

German . . . . . 18

British American . . . . . 54

Italian . . . . . 24

Other Countries . . . . . 65

Mixed . . . . . 66

Unknown . . . . . 96

Still-births during the month . . . . . 46

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for January, 1891.	Total Mortality for January, 1890.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	6	6											1	2		2	1					4	2	
CROUP . . . . .	6	13			1	1	4			6											4	2		
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .		2																						
CEREBRO-SPINAL MENINGITIS . . . . .	5			1	3					4						1					5			
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	7	10	5							5						1		1			5	2		
DYSENTERY . . . . .	1	2		1						1											1			
DIPHTHERIA . . . . .	16	63			2	5	2	3	1	13	2				1						13	3		
ERYSIPELAS . . . . .	5	3	1							1						3	1				3	2		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	1	13																	1			1		
MEASLES . . . . .	6				2	2	2			6											2	4		
PURPURA . . . . .		1																						
PURPERAL FEVER. . . . .	2												1		1							2		
PYŒMIA . . . . .	1	2														1						1		
REMITTENT FEVER . . . . .	1													1							1			
RHEUMATISM . . . . .	6														2	1	2			1	3	3		
SCARLATINA . . . . .	6	5			2		1			3	3										4	2		
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	2	2	1			1				2											1	1		
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	1	1															1					1		
TONSILLITIS. . . . .																								
TYPHOID FEVER. . . . .	8	7										3	3	1	1						5	3		
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	4	5			1	3				4											1	3		
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		1																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	29	34											1	4	7	3	9	4	1		5	24		
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	17		4	2	3		2	11	2		3									9	7		
MARASMUS, SCROFULA AND TABES MESENTERICA	25	21	16	3	1	1		1		22	1					1		1			16	9		
PHTHISIS PULMONALIS . . . . .	123	215	4	1	3	3		1	1	13	1	11	34	25	23	8	4	3	1		57	66		
OTHER CONSTITUTIONAL DISEASES . . . . .	16	25				1				1	2	1	1	5		2	2	1	1		11	5		



# of January, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for January, 1891.	Total Mortality for January, 1890.	AGE.																			SEX.	
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
APOPLEXY . . . . .	23	25										2	1	2	3	4	2	4	5			7	16
BRIGHT'S DISEASE . . . . .	12	22											2	3	2		3	2			7		
BRONCHITIS . . . . .	48	81	2	3	11	7	4	3		30				1	1	1	6	5	3	1	24	24	
HEART DISEASE . . . . .	76	84	1		1				1	3	1	5	10	7	5	14	16	10	5		36	40	
MENINGITIS . . . . .	18	17	1		4	7				12		1	1	2	2						11	7	
NEPHRITIS . . . . .	14	18							2	2		1		3	2	3	2		1		7	7	
PLEURISY . . . . .	3												1	1			1				1	2	
PNEUMONIA . . . . .	139	332	5	8	10	11	6	4	2	46	4	6	4	14	11	11	23	12	7	1	75	64	
OTHER LOCAL DISEASES . . . . .	141	167	8	8	5	8	4	2	2	37	3	3	9	17	20	16	11	16	8	1	71	70	
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .	1	2	1							1												1	
INANITION . . . . .	21	6	16	2	1					19						2					12	9	
OLD AGE . . . . .	24	28																9	11	4	10	14	
PREMATURE BIRTH . . . . .	12	16	12							12											6	6	
PUERP'L DISEASES (not including Puerp'l Fever)	2	4											2									2	
OTHER DEVELOPMENTAL DISEASES . . . . .	31	26	21	2	1					24			1				3	2	1		12	19	
V. VIOLENT.																							
ACCIDENTAL . . . . .	28	29		1		1	1			3	1		5	5	2	5	1	4	1	1	17	11	
HOMICIDAL . . . . .	1	1												1							1		
SUICIDAL . . . . .	3	1											1		1				1		2	1	
OTHER VIOLENT CAUSES . . . . .	2	1															1				1	1	
UNKNOWN CAUSES . . . . .	2	3	1							1			1									2	
TOTAL FROM ALL CAUSES . . . . .	894	1309	94	35	48	55	24	15	11	282	20	33	82	97	83	80	87	74	47	9	450	444	
TOTAL FROM ZYMOTIC DISEASES . . . . .	84	136	6	3	9	13	9	4	1	45	5	3	5	6	4	10	3	1	1	1	52	32	
“ “ CONSTITUTIONAL DISEASES . . . . .	209	310	20	8	6	8		2	3	47	6	12	39	34	30	14	15	9	3		98	111	
“ “ LOCAL do. . . . .	474	746	17	19	31	33	14	9	7	130	8	18	28	50	46	49	64	49	29	3	239	235	
“ “ DEVELOPMENTAL do. . . . .	91	82	50	4	2					56			3			2	3	11	12	4	40	61	
“ “ VIOLENT CAUSES . . . . .	34	32		1		1	1			3	1		6	7	3	5	2	4	2	1	21	13	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of January, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING JANUARY, 1891.			CASES REPORTED DURING JANUARY, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	80	....	Diphtheria . . . . .	200	....
Measles . . . . .	441	....	Measles . . . . .	14	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	109	....	Scarlatina . . . . .	98	....
Typhoid Fever . . . . .	29	....	Typhoid Fever . . . . .	37	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE SIGNAL OFFICE, BOSTON.

For the month of January, 1891, as reported by J. W. SMITH, Sergeant Signal Corps, U. S. A.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.10	24	87	S.E.	.01	Mean Barometer, 30.013.	
2	29.43	43	100	S.W.	.93	Highest Barometer, 30.613, on the 16th.	
3	29.95	27	78	N.W.	.38	Lowest Barometer, 28.772, on the 12th.	
4	30.26	18	83	N.W.	.00	Monthly Range of Barometer, —	
5	29.94	24	100	N.	.31	Mean Temperature, 31.1.	
6	29.94	22	86	N.W.	T	Highest Temperature, 56.0, on the 23d.	
7	30.02	25	68	N.W.	.00	Lowest Temperature, 23.0, on the 14th.	
8	30.27	22	73	N.W.	.00	Monthly Range of Temperature, —	
9	30.36	24	77	N.W.	.00	Greatest Daily Range of Temperature, 23.0, on the 14th.	
10	30.20	32	61	N.W.	.00	Least Daily Range of Temperature, 3.0, on the 25th.	
11	29.85	38	81	S.W.	.40	Mean Daily Range of Temperature, —	
12	29.96	39	81	W.	.23	Mean Daily Dew-point, 25.2.	
13	29.80	23	65	W.	.00	Mean Daily Relative Humidity, 81.7.	
14	29.86	28	85	S.	.01	Prevailing Direction of Wind, West.	
15	30.35	30	61	W.	.00	Total Movement of Wind, 8,725 Miles.	
16	30.52	28	72	N.	.00	Highest Velocity of Wind and Direction, 48 miles S.W. on the 12th.	
17	30.27	24	100	N.	.40	Number of Foggy Days, 0.	
18	29.94	32	74	N.	.67	" Clear " 5.	
19	30.08	24	91	N.	.00	" Fair " 11.	
20	30.03	30	81	N.W.	.00	Number of Cloudy " 15.	
21	30.08	35	85	S.W.	.00	Total Number of Days on which Rain or Snow fell, 14.	
22	29.66	46	96	S.	.51	Depth of unmelted Snow on ground at end of month, 2 inches.	
23	30.00	40	73	W.	.00	Dates of Auroras, —	
24	30.17	41	80	S.W.	.00	Dates of Solar Halos, 31st.	
25	29.69	31	90	N.E.	.35	Dates of Lunar Halos, 15th, 23d, 24th.	
26	30.03	31	84	W.	.00	Mean Max. Temp., 37.6.	
27	30.14	30	84	N.E.	.01	Mean Min. Temp., 24.6.	
28	30.28	34	90	Calm.	.00	Thunder storm, none.	
29	30.05	35	100	E.	.16	Dates of Frosts, —	
30	29.75	41	81	W.	.02	COMPARATIVE TEMPERATURE.	
31	30.18	35	74	W.	T	COMPARATIVE PRECIPITATIONS.	
TOTALS .....					4.39	Inches.	
MEANS .. ....	30.013	31.1	81.7	W.	.141		
						1871 . . . . . 26.0	1871 . . . . . 2.67
						1872 . . . . . 27.0	1872 . . . . . 2.11
						1873 . . . . . 25.0	1873 . . . . . 5.76
						1874 . . . . . 30.0	1874 . . . . . 4.32
						1875 . . . . . 20.0	1875 . . . . . 3.68
						1876 . . . . . 29.0	1876 . . . . . 1.87
						1877 . . . . . 23.0	1877 . . . . . 3.33
						1878 . . . . . 28.0	1878 . . . . . 7.60
						1879 . . . . . 24.0	1879 . . . . . 2.79
						1880 . . . . . 35.0	1880 . . . . . 3.72
						1881 . . . . . 22.0	1881 . . . . . 7.21
						1882 . . . . . 26.0	1882 . . . . . 3.68
						1883 . . . . . 25.0	1883 . . . . . 3.59
						1884 . . . . . 24.0	1884 . . . . . 6.27
						1885 . . . . . 27.0	1885 . . . . . 5.33
						1886 . . . . . 26.0	1886 . . . . . 7.08
						1887 . . . . . 26.0	1887 . . . . . 4.86
						1888 . . . . . 20.0	1888 . . . . . 2.26
						1889 . . . . . 35.0	1889 . . . . . 4.11
						1890 . . . . . 32.0	1890 . . . . . 2.00
						1891 . . . . . 31.0	1891 . . . . . 4.39

Average monthly temperature for 21 years, 26.7.

Average monthly precipitation for 21 years, 4.36.

T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of February, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of February, 1891, . . . . . 735  
Population by National Census, 448,477. . . . . Rate per 1,000 inhabitants, 19.66

Total number . . . . . 735

### SEX.

Males . . . . . 354  
Females . . . . . 381

### CONDITION.

Married . . . . . 226  
Single . . . . . 387  
Widows . . . . . 95  
Widowers . . . . . 24  
Unknown . . . . . 3

### COLOR.

White . . . . . 716  
Colored . . . . . 19

Total deaths of children { Under 1 year . . . . . 150  
Under 2 years . . . . . 196  
Under 5 years . . . . . 229

Diarrhœal diseases { Under 1 year . . . . . 4  
Under 2 years . . . . . 4  
Under 5 years . . . . . 4  
All ages . . . . . 6

### NATIVITY.

United States . . . . . 465  
Ireland . . . . . 167  
England . . . . . 11  
Scotland . . . . . 10  
Germany . . . . . 18  
British America . . . . . 41  
Italy . . . . . 9  
Other Countries . . . . . 9  
Unknown . . . . . 5

### PARENTAGE.

United States . . . . . 181  
Irish . . . . . 279  
English . . . . . 15  
Scotch . . . . . 8  
German . . . . . 24  
British American . . . . . 34  
Italian . . . . . 20  
Other Countries . . . . . 49  
Mixed . . . . . 46  
Unknown . . . . . 79

Still-births during the month . . . . . 47

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for February, 1891.	Total Mortality for February, 1890.	AGE.																			SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.		
I. ZYMOTICS.																									
ALCOHOLISM . . . . .	3	11													1	1	1						2	1	
CROUP . . . . .	3	5			1		1	1	3														2	1	
CARBUNCLE . . . . .																									
CHOLERA MORBUS . . . . .																									
CHOLERA INFANTUM . . . . .	2	1	1		1					2													1	1	
CEREBRO-SPINAL MENINGITIS . . . . .	2	1	1			1				2													1	1	
CONGESTIVE FEVER . . . . .																									
DIARRHŒA . . . . .	3	4	2							2						1							1	2	
DYSENTERY . . . . .	1																	1						1	
DIPHTHERIA . . . . .	18	49			2		4	3	2	11	7												9	9	
ERYSIPELAS . . . . .	6	3	1							1			1		1	1		1	1				1	5	
INTERMITTENT FEVER . . . . .																									
INFLUENZA . . . . .	1	3													1									1	
MEASLES . . . . .	2			1	1					2													1	1	
PURPURA . . . . .																									
PUERPERAL FEVER . . . . .	2	5											1	1										2	
PYŒMIA . . . . .	1	2															1							1	
REMITTENT FEVER . . . . .																									
RHEUMATISM . . . . .	1	4															1							1	
SCARLATINA . . . . .	8	3			1	1	1	1	2	6	2												2	6	
SMALL POX . . . . .																									
SYPHILIS (CONGENITAL) . . . . .	1	3				1				1														1	
SYPHILIS . . . . .		1																							
SEPTICŒMIA . . . . .	1												1											1	
TONSILLITIS . . . . .	1						1			1														1	
TYPHOID FEVER . . . . .	4	5			1					1			1	1			1						2	2	
TYPHUS FEVER . . . . .																									
WHOOPING COUGH . . . . .	1	6			1					1													1		
YELLOW FEVER . . . . .																									
OTHER ZYMOTIC DISEASES . . . . .	2												2										2		
II. CONSTITUTIONAL.																									
CANCER . . . . .	22	23										1			5	5	8	3					10	12	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	13	13	1	1	4	4				10	3												7	6	
MARASMUS, SCHOFOULA AND TABES MESENTERICA . . . . .	24	15	15	2	3	4				24													16	8	
PHTHRIS PULMONALIS . . . . .	88	125		1	1					2		5	32	25	17	5		1	1				46	42	
OTHER CONSTITUTIONAL DISEASES . . . . .	13	7			1					1	1	3	3	4	1								5	8	



of February, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.			
	Total Mortality for February, 1891.	Total Mortality for February, 1890.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APoplexy . . . . .	18	28												2		5	8	3					7	11
Bright's Disease . . . . .	10	9												3		1	5		1				4	6
BRONCHITIS . . . . .	46	48	4	6	5	5	2			22	3	2			2	3	2	5	5	2			19	27
HEART DISEASE . . . . .	51	65		1						1		3	5	6	9	8	6	8	5				23	28
MENINGITIS . . . . .	23	21		1	6	4	6	1		18				1	2	2							12	11
NEPHRITIS . . . . .	10	7									1	1	2	3	1	2							5	5
PLeURISY . . . . .	1													1										1
PNEUMONIA . . . . .	121	85	4	5	8	15	2		1	35	3	5	9	10	15	11	15	11	6	1			50	71
OTHER LOCAL DISEASES . . . . .	130	87	11	3	4	5	2	1	1	27	3	2	15	12	21	18	14	16	2				70	60
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	3		3							3													2	1
INANITION . . . . .	15	9	13		1	1				15													9	6
OLD AGE . . . . .	14	21															1	3	8	2			3	11
PREMATURE BIRTH . . . . .	20	13	20							20													11	9
Puerp'l Diseases (not including Puerp'l Fever)	2	4										1		1										2
OTHER DEVELOPMENTAL DISEASES . . . . .	17	21	8	2	1	1	1			13					1		2		1				8	9
V. VIOLENT.																								
ACCIDENTAL . . . . .	22	27	4							4			5	2	5	5	1						16	6
HOMICIDAL . . . . .																								
SUICIDAL . . . . .	5	3											1	2	1	1							5	
OTHER VIOLENT CAUSES . . . . .	1	2											1											1
UNKNOWN CAUSES . . . . .	3	3	1							1						1		1					1	2
TOTAL FROM ALL CAUSES . . . . .	755	742	89	23	38	46	20	7	6	229	25	23	79	74	83	71	65	53	30	5			354	381
TOTAL FROM ZYMOTIC DISEASES . . . . .	63	105	5	1	6	5	7	5	4	33	9		6	2	3	4	3	2	1				25	38
“ “ CONSTITUTIONAL DISEASES . . . . .	160	183	16	4	7	10				37	4	9	35	29	23	10	8	4	1				84	76
“ “ LOCAL do. . . . .	410	350	19	16	23	29	12	2	2	103	10	13	31	38	60	50	50	43	19	3			190	220
“ “ DEVELOPMENTAL do. . . . .	71	68	44	2	2	2	1			51		1		1	1		3	3	9	2			33	38
“ “ VIOLENT CAUSES . . . . .	28	32	4							4			7	4	6	6	1						21	7

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of February, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING FEBRUARY, 1891.			CASES REPORTED DURING FEBRUARY, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	71	....	Diphtheria . . . . .	189	....
Measles . . . . .	478	....	Measles . . . . .	16	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	95	....	Scarlatina . . . . .	103	....
Typhoid Fever . . . . .	22	....	Typhoid Fever . . . . .	26	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE SIGNAL OFFICE, BOSTON.

For the month of February, 1891. as reported by J. W. SMITH, Sergeant Signal Corps, U. S. A.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.68	42	92	W.	.28	Mean Barometer, 30.068.
2	30.18	37	72	W.	.00	Highest Barometer, 30.73, on the 15th.
3	29.66	39	90	S.	.38	Lowest Barometer, 29.35, on the 3d.
4	30.05	17	69	W.	.00	Monthly Range of Barometer, —
5	30.54	15	69	S.W.	.00	Mean Temperature, 32.0.
6	30.10	36	93	S.W.	.13	Highest Temperature, 62.0, on the 25th.
7	30.01	35	66	N.E.	.00	Lowest Temperature, 20.0, on the 5th.
8	30.16	26	97	N.	.30	Monthly Range of Temperature, —
9	30.28	24	97	N.W.	.20	Greatest Daily Range of Temperature, 29.0, on the 24th.
10	29.72	38	85	W.	.47	Least Daily Range of Temperature, 8.0, on the 14th.
11	30.23	28	65	S.	.00	Mean Daily Range of Temperature, —
12	30.24	30	82	N.W.	.00	Mean Daily Dew-point, 25.5.
13	30.07	32	85	W.	.00	Mean Daily Relative Humidity, 80.4.
14	30.40	16	61	N.W.	.00	Prevailing Direction of Wind, West.
15	30.52	19	66	S.W.	.00	Total Movement of Wind, 9,215 Miles.
16	29.76	42	89	S.W.	T	Highest Velocity of Wind and Direction, 41 miles W. on the 22d.
17	29.70	42	97	N.E.	.25	Number of Foggy Days, 0.
18	29.78	40	75	W.	.15	“ Clear “ 8.
19	30.50	27	46	N.W.	.00	“ Fair “ 9.
20	30.39	26	83	E.	.29	Number of Cloudy “ 11.
21	29.70	38	98	W.	.21	Total Number of Days on which Rain or Snow fell, 15.
22	29.93	34	67	W.	.06	Depth of unmelted Snow on ground at end of month, 2 inches.
23	30.54	24	69	S.	.00	Dates of Auroras, —
24	30.28	42	83	S.	.00	Dates of Solar Halos, 28th.
25	29.66	54	89	S.	.02	Dates of Lunar Halos, 15th, 23d, 24th.
26	29.46	41	93	N.	.66	Mean Max. Temp., 39.5.
27	29.83	26	74	W.	.24	Thunder storm, none.
28	30.36	20	80	S.	T	Dates of Frosts, —
TOTALS .....					3.64	
MEANS ..	30.068	32.0	80.4	W.	.13	

Average monthly temperature for 21 years, 28.2.

Average monthly precipitation for 21 years, 3.53.

T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of March, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of March, 1891, . . . . . 813  
Population by National Census, 448,477. . . . . Rate per 1,000 inhabitants, 21.75

Total number . . . . . 813

### SEX.

Males . . . . . 414

Females . . . . . 399

### CONDITION.

Married . . . . . 288

Single . . . . . 395

Widows . . . . . 95

Widowers . . . . . 29

Unknown . . . . . 6

### COLOR.

White . . . . . 787

Colored . . . . . 26

Total deaths of children { Under 1 year . . . . . 153  
Under 2 years . . . . . 189  
Under 5 years . . . . . 227

Diarrhoeal diseases { Under 1 year . . . . . 2  
Under 2 years . . . . . 3  
Under 5 years . . . . . 3  
All ages . . . . . 8

### NATIVITY.

United States . . . . . 529

Ireland . . . . . 177

England . . . . . 14

Scotland . . . . . 12

Germany . . . . . 9

British America . . . . . 41

Italy . . . . . 3

Other Countries . . . . . 20

Unknown . . . . . 8

### PARENTAGE.

United States . . . . . 201

Irish . . . . . 290

English . . . . . 23

Scotch . . . . . 15

German . . . . . 16

British American . . . . . 34

Italian . . . . . 9

Other Countries . . . . . 70

Mixed . . . . . 65

Unknown . . . . . 90

Still-births during the month . . . . . 58

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for March, 1891.	Total Mortality for March, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
			I. ZYMOTIC.																					
ALCOHOLISM . . . . .	3	2										2		1									1	2
CROUP . . . . .	5	8		1		1	1	2		5													2	3
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	1			1					1														1
CEREBRO-SPINAL MENINGITIS . . . . .	3						2	1		3													2	1
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	3	11															1	2					1	2
DYSENTERY . . . . .	4	3		1		1				2							2							4
DIPHTHERIA . . . . .	13	41			1	1	1	1	3	7	3			1	2								6	7
ERYSIPELAS . . . . .	4	7	2							2			1					1					2	2
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	1	3									1												1	
MEASLES . . . . .	4			2		1				3	1												1	3
PURPURA . . . . .																								
PUERPERAL FEVER. . . . .		5																						
PYÆMIA . . . . .	5	1										1	3				1						5	
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	3	3																3					1	2
SCARLATINA . . . . .	7	6					2	1	1	4	1		2										2	5
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	4	4	3	1						4													3	1
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	2	2	1							1								1					2	
TONSILLITIS. . . . .	1					1				1													1	
TYPHOID FEVER. . . . .	11	7											4	4		2	1						7	4
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	6				2				2													1	1
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	1																	1					1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	25	20											1	3	3	5	9	3	1				10	15
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	10	19	1		3	4		1		9	1												5	5
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	21	33	10	3	3	3				19	1							1					13	8
PHTHISIS PULMONALIS . . . . .	98	133			1		3			4	1	5	38	23	12	7	5	2	1				58	40
OTHER CONSTITUTIONAL DISEASES . . . . .	21	11				1			1	2		2	8	4	4		1						14	7



# of March, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for March, 1891.	Total Mortality for March, 1890.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
Apoplexy . . . . .	30	36											3	2	3	5	6	5	5	1		11	19
Bright's Disease . . . . .	9	11												1	2	2	2					6	
Bronchitis . . . . .	46	51	4	5	6	5	1	2		23	1		1	1		6	5	9				21	25
Heart Disease . . . . .	70	67	1		1					2	2	2	5	8	13	12	10	9	7			30	40
Meningitis . . . . .	17	19	1	1	7	3	1	1	1	15	1			1								7	10
Nephritis . . . . .	13	12			1					1			1		4	5	2					10	3
Pleurisy . . . . .	2	1												1			1					2	
Pneumonia . . . . .	104	111	2	3	7	7	4		2	25	1	2	8	14	15	13	9	13	3	1		49	55
Other Local Diseases . . . . .	149	128	16	10	9	6	2	2		45	4	4	10	14	11	26	13	17	5			81	68
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	1	4	1							1													1
Inanition . . . . .	14	9	12		1					13						1						4	10
Old Age . . . . .	26	19															3	8	11	4		5	21
Premature Birth . . . . .	13	12	13							13												9	4
Puerp'l Diseases (not including Puerp'l Fever)	3	2										1	1	1									3
Other Developmental Diseases . .	29	20	15	2						17	1					3	4	3	1			12	17
V. VIOLENT.																							
Accidental . . . . .	26	17					1	1		2		3	6	3	7	3	1		1			23	3
Homicidal . . . . .		1																					
Suicidal . . . . .	4	8												1	1	1	1					3	1
Other Violent Causes . . . . .		2																					
Unknown Causes . . . . .	5	4	1							1			1		2	1						2	3
TOTAL FROM ALL CAUSES . . . . .	813	860	83	29	41	26	18	12	8	227	19	20	95	82	80	94	79	75	45	6		414	399
* TOTAL FROM ZYMOTIC DISEASES . . . . .	77	110	6	5	2	7	6	5	4	35	6	1	12	5	3	4	7	4				39	38
“ “ CONSTITUTIONAL DISEASES . . . . .	175	216	11	3	7	8	3	1	1	34	3	7	47	30	19	12	15	6	2			100	75
“ “ LOCAL do. . . . .	440	436	24	19	31	21	8	5	3	111	9	8	28	42	48	69	48	55	20	2		217	223
“ “ DEVELOPMENTAL do. . . . .	86	66	41	2	1					44	1	1	1	1		4	7	11	12	4		30	56
“ “ VIOLENT CAUSES . . . . .	30	28					1	1		2		3	6	4	8	4	2		1			26	4

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of March, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING MARCH, 1891.			CASES REPORTED DURING MARCH, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	59	....	Diphtheria . . . . .	154	....
Measles . . . . .	447	....	Measles . . . . .	25	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	108	....	Scarlatina . . . . .	105	....
Typhoid Fever . . . . .	32	....	Typhoid Fever . . . . .	32	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE SIGNAL OFFICE, BOSTON.

For the month of March, 1891, as reported by J. W. SMITH, Sergeant Signal Corps, U. S. A.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.44	20	56	N.W.	.12	Mean Barometer, 30.127.
2	30.53	11	65	N.W.	.00	Highest Barometer, 30.567, on the 2d.
3	30.30	21	75	E.	.02	Lowest Barometer, 29.396, on the 13th.
4	29.80	25	100	E.	1.05	Monthly Range of Barometer, —
5	29.92	23	71	N.W.	.08	Mean Temperature, 33.6.
6	30.06	27	67	N.W.	.00	Highest Temperature, 55.0, on the 13th.
7	30.09	34	54	N.W.	.00	Lowest Temperature, 3.0, on the 2d.
8	30.16	34	69	N.W.	.00	Monthly Range of Temperature, —
9	30.14	36	94	E.	.14	Greatest Daily Range of Temperature, 24.0, on the 18th.
10	30.13	39	58	W.	.25	Least Daily Range of Temperature, 2.0, on the 19th.
11	30.44	39	63	W.	.00	Mean Daily Range of Temperature, —
12	30.32	39	92	S.	.03	Mean Daily Dew-point, 24.5.
13	29.61	46	96	E.	.61	Mean Daily Relative Humidity, 72.8.
14	29.77	33	68	W.	.02	Prevailing Direction of Wind, N.W.
15	30.23	28	56	W.	.00	Total Movement of Wind, 10,907 Miles.
16	30.00	40	55	S.W.	T	Highest Velocity of Wind and Direction, 45 miles S. on the 10th.
17	30.22	23	44	N.W.	.00	Number of Foggy Days, 0.
18	30.08	37	63	S.W.	.00	“ Clear “ 11.
19	30.25	32	87	N.E.	.03	“ Fair “ 6.
20	30.37	32	83	N.E.	T	Number of Cloudy “ 14.
21	29.98	36	100	N.E.	1.25	Total Number of Days on which Rain or Snow fell, 14.
22	29.84	40	100	E.	.29	Depth of unmelted Snow on ground at end of month, none in city, 2 to 4 inches in surrounding country.
23	30.10	41	100	N.E.	.02	Dates of Auroras, —
24	30.19	39	96	N.E.	.03	Dates of Solar Halos, 8th, 15th, 27th, 28th, 30th.
25	30.15	42	65	N.W.	.00	Dates of Lunar Halos, 15th, 17th, 28th, 27th.
26	30.36	33	63	N.W.	.00	Mean Max. Temp., 40.0.
27	30.24	35	59	N.W.	.00	Mean Min. Temp., 27.3.
28	29.91	37	59	N.	.00	Thunder storm, none.
29	29.91	42	78	N.	.00	Dates of Frosts, —
30	30.12	40	52	E.	.00	COMPARATIVE TEMPERATURE.
31	30.16	35	75	E.	.00	COMPARATIVE PRECIPITATIONS.
TOTALS .....					3.94	
MEANS .....	30.127	33.6	72.8	N.W.	.127	

Average monthly temperature for 21 years, 32.2.

Average monthly precipitation for 21 years, 4.27.

T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of April, 1891.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of April, 1891, . . . . .	913
Population by National Census, 448,477.	Rate per 1,000 inhabitants, 24.42

Total number . . . . . 913

### SEX.

Males . . . . .	470
Females . . . . .	443

### CONDITION.

Married . . . . .	309
Single . . . . .	457
Widows . . . . .	101
Widowers . . . . .	40
Unknown . . . . .	6

### COLOR.

White . . . . .	893
Colored . . . . .	20

Total deaths of children	Under 1 year . . . . .	171
	Under 2 years . . . . .	212
	Under 5 years . . . . .	252

Diarrhoeal diseases	Under 1 year . . . . .	3
	Under 2 years . . . . .	5
	Under 5 years . . . . .	5
	All ages . . . . .	6

### NATIVITY.

United States . . . . .	591
Ireland . . . . .	174
England . . . . .	19
Scotland . . . . .	8
Germany . . . . .	22
British America . . . . .	61
Italy . . . . .	4
Other Countries . . . . .	15
Unknown . . . . .	19

### PARENTAGE.

United States . . . . .	240
Irish . . . . .	300
English . . . . .	27
Scotch . . . . .	7
German . . . . .	27
British American . . . . .	43
Italian . . . . .	12
Other Countries . . . . .	80
Mixed . . . . .	69
Unknown . . . . .	108

Still-births during the month . . . . . 48

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for April, 1891.	Total Mortality for April, 1890.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTIC.																								
ALCOHOLISM . . . . .	8	9											1										3	
CROUP . . . . .	2	6				1	1			2													1	1
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .		1																						
CHOLERA INFANTUM . . . . .	4			1	1	2				4													3	1
CEREBRO-SPINAL MENINGITIS . . . . .		2																						
CONGESTIVE FEVER . . . . .		1																						
DIARRHŒA . . . . .	1	7		1						1														1
DYSENTERY . . . . .	1	1															1							1
DIPHTHERIA . . . . .	17	40				4	3	2		9	6		2										11	6
ERYSIPELAS . . . . .	8	7		2	1					3				1	1	2				1			4	4
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	3	1															1	2					3	
MEASLES . . . . .	2				1					1	1												1	1
PURPURA . . . . .		2																						
PUERPERAL FEVER. . . . .	4	4											3	1										4
PYŒMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1	3											1										1	
SCARLATINA . . . . .	7	4			1	2	2	1		6	1												4	3
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	2	4	1	1						2													1	1
SYPHILIS . . . . .	2														2									2
SEPTICŒMIA . . . . .	2	1													2									2
TONSILLITIS . . . . .																								
TYPHOID FEVER. . . . .	9	7											6	2	1								4	5
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	8	2	3	1	1	1				6	1	1											2	6
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	31	36											3	3	8	5	7	4	1				11	20
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	18	18	1	1	2	4	3	2	2	15	3												11	7
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	27	21	16	4	2	2	1	1		26							1						10	17
PHthisIS PULMONALIS . . . . .	125	114	1		1		1			3	1	9	37	33	20	13	6	2	1				62	63
OTHER CONSTITUTIONAL DISEASES . . . . .	18	12	1	1	1	2		2		7		2	2	3		4							7	11

# of April, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for		AGE.																			SEX.		
	April, 1891.	April, 1890.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	31	27									1		1	5		4	9	9	2				9	22
BRIGHT'S DISEASE . . . . .	17	10											2	1	2	6	3	2	1				12	
BRONCHITIS . . . . .	42	41	2	3	4	6	1	1	1	18	1	2	3	2	1	4	4	4	3				22	20
HEART DISEASE . . . . .	64	56			1					1		3	4	6	6	13	17	8	5	1			31	33
MENINGITIS . . . . .	26	19	4	2	6	8		1	1	22	1	2		1									17	9
NEPHRITIS . . . . .	18	19					1			1		1	1	4	4	2	2	3					9	9
PLEURISY . . . . .	1	3															1						1	
PNEUMONIA . . . . .	151	114	7	3	13	4	3	4	2	36	3	4	13	15	19	20	17	16	6	2			82	69
OTHER LOCAL DISEASES . . . . .	134	106	19	2	6	4	1	1		33	2	4	6	14	19	18	18	10	10				73	61
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	3		3							3													2	1
INANITION . . . . .	19	10	14	3						17	1								1				9	10
OLD AGE . . . . .	31	15															2	11	15	3			14	17
PREMATURE BIRTH . . . . .	12	11	12							12													9	3
PUERP'L DISEASES (not including Puerp'l Fever)	2	1												2										2
OTHER DEVELOPMENTAL DISEASES . .	20	13	18	1						19									1				10	10
V. VIOLENT.																								
ACCIDENTAL . . . . .	33	24	1			1	1	1		4	1	1	6	4	5	5	4	2	1				24	9
HOMICIDAL . . . . .																								
SUICIDAL . . . . .	8	9											1	3	1	1	2						6	2
OTHER VIOLENT CAUSES . . . . .		1																						
UNKNOWN CAUSES . . . . .	6	2	1							1		1		1	2	1							1	5
TOTAL FROM ALL CAUSES . . . . .	913	785	104	26	41	41	18	16	6	292	23	36	88	104	88	100	95	73	48	6			479	443
TOTAL FROM ZYMOTIC DISEASES . . . . .	76																							
INCLUDING TUBERCULAR DISEASES . . . .	258	103	4	6	5	10	6	3		34	9	7	9	7	1	4	2	2	1				38	38
TOTAL FROM CONSTITUTIONAL DISEASES . .	219	201	19	6	6	8	5	5	2	51	4	11	42	39	28	22	14	6	2				101	118
" " LOCAL do. . . . .	484	395	32	10	30	22	6	7	4	111	8	16	30	43	51	67	71	52	27	3			256	228
" " DEVELOPMENTAL do. . . . .	87	50	47	4						51	1			2			2	11	17	3			44	43
" " VIOLENT CAUSES . . . . .	41	34	1			1	1	1		4	1	1	7	7	6	6	6	2	1				30	11

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of April, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING APRIL, 1891.			CASES REPORTED DURING APRIL, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	71	....	Diphtheria . . . . .	164	....
Measles . . . . .	501	....	Measles . . . . .	34	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	7
Scarlatina . . . . .	151	....	Scarlatina . . . . .	122	....
Typhoid Fever . . . . .	24	....	Typhoid Fever . . . . .	25	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....



# METEOROLOGICAL OBSERVATIONS TAKEN AT THE SIGNAL OFFICE, BOSTON.

For the month of April, 1891, as reported by J. W. SMITH, Sergeant Signal Corps, U. S. A.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.15	38	78	E.	.00	Mean Barometer, 29.957.
2	30.07	38	81	E.	T	Highest Barometer, 30.587, on the 10th.
3	29.14	40	90	W.	.91	Lowest Barometer, 28.969, on the 3d.
4	29.57	38	71	W.	.00	Monthly Range of Barometer, —
5	29.89	36	55	W.	.00	Mean Temperature, 48.0.
6	29.85	36	62	W.	.00	Highest Temperature, 78.0, on the 27th.
7	29.88	36	55	W.	.00	Lowest Temperature, 27.0, on the 6th.
8	30.18	39	59	W.	.00	Monthly Range of Temperature, —
9	30.45	38	61	E.	.00	Greatest Daily Range of Temperature, 33.0, on the 27th.
10	30.35	42	68	E.	.00	Least Daily Range of Temperature, 6.0, on the 15th.
11	30.31	45	89	S.	.02	Mean Daily Range of Temperature, —
12	30.05	54	71	W.	.17	Mean Daily Dew-point, 39.3.
13	29.92	52	84	W.	.00	Mean Daily Relative Humidity, 75.1.
14	30.08	62	79	S.W.	.00	Prevailing Direction of Wind, West.
15	30.12	41	92	N.E.	.47	Total Movement of Wind, 9,048 Miles.
16	30.13	46	89	E.	.00	Highest Velocity of Wind and Direction, 60 miles N.E. on the 3d.
17	30.25	50	83	E.	.00	Number of Foggy Days, 0.
18	29.98	61	85	S.W.	.00	“ Clear “ 11.
19	29.89	69	77	W.	.09	“ Fair “ 11.
20	30.18	50	85	E.	.00	Number of Cloudy “ 8.
21	30.30	54	75	W.	.00	Total Number of Days on which Rain or Snow fell, 7.
22	29.82	62	75	S.W.	.00	Depth of unmelted Snow on ground at end of month, none.
23	29.52	59	91	W.	.01	Dates of Auroras, —
24	29.58	50	81	N.E.	T	Dates of Solar Halos, 6th, 10th, 17th.
25	29.63	46	90	N.W.	.04	Dates of Lunar Halos, none.
26	29.92	46	59	N.W.	.00	Mean Max. Temp., 56.8.
27	29.96	62	66	W.	.00	Mean Min. Temp., 39.3.
28	29.76	58	67	W.	.00	Thunder storm, 18th.
29	29.84	46	68	N.W.	.00	Dates of Frosts, —
30	29.70	54	68	S.W.	.00	
TOTALS .....					1.71	
MEANS .. ....	29.957	48.0	75.1	W.	.057	
						COMPARATIVE TEMPERATURE.
						1871 . . . . . 47.0
						1872 . . . . . 44.6
						1873 . . . . . 47.1
						1874 . . . . . 37.0
						1875 . . . . . 42.1
						1876 . . . . . 43.2
						1877 . . . . . 43.9
						1878 . . . . . 41.2
						1879 . . . . . 42.2
						1880 . . . . . 46.2
						1881 . . . . . 42.8
						1882 . . . . . 42.0
						1883 . . . . . 44.3
						1884 . . . . . 42.7
						1885 . . . . . 46.3
						1886 . . . . . 47.7
						1887 . . . . . 43.7
						1888 . . . . . 42.2
						1889 . . . . . 47.7
						1890 . . . . . 46.3
						1891 . . . . . 48.0
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . Inches. 3.79
						1872 . . . . . 1.31
						1873 . . . . . 3.83
						1874 . . . . . 7.99
						1875 . . . . . 4.92
						1876 . . . . . 3.61
						1877 . . . . . 4.19
						1878 . . . . . 6.14
						1879 . . . . . 6.54
						1880 . . . . . 2.85
						1881 . . . . . 1.66
						1882 . . . . . 2.50
						1883 . . . . . 2.83
						1884 . . . . . 4.76
						1885 . . . . . 3.30
						1886 . . . . . 1.70
						1887 . . . . . 2.68
						1888 . . . . . 2.04
						1889 . . . . . 3.07
						1890 . . . . . 2.29
						1891 . . . . . 1.71

Average monthly temperature for 21 years, 44.2.

Average monthly precipitation for 21 years, 3.51.

T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of May, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of May, 1891, . . . . . 891  
Population by National Census, 448,477. . . . . Rate per 1,000 inhabitants, 23.84

Total number . . . . . 891

### SEX.

Males . . . . . 439

Females . . . . . 452

### CONDITION.

Married . . . . . 284

Single . . . . . 453

Widows . . . . . 102

Widowers . . . . . 44

Unknown . . . . . 8

### COLOR.

White . . . . . 863

Colored . . . . . 28

Total deaths of children { Under 1 year . . . . . 153  
Under 2 years . . . . . 195  
Under 5 years . . . . . 247

Diarrhoeal diseases { Under 1 year . . . . . 2  
Under 2 years . . . . . 2  
Under 5 years . . . . . 2  
All ages . . . . . 4

### NATIVITY.

United States . . . . . 581

Ireland . . . . . 182

England . . . . . 14

Scotland . . . . . 7

Germany . . . . . 10

British America . . . . . 53

Italy . . . . . 8

Other Countries . . . . . 26

Unknown . . . . . 10

### PARENTAGE.

United States . . . . . 242

Irish . . . . . 304

English . . . . . 20

Scotch . . . . . 13

German . . . . . 24

British American . . . . . 40

Italian . . . . . 17

Other Countries . . . . . 74

Mixed . . . . . 76

Unknown . . . . . 81

Still-births during the month . . . . . 55

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for May, 1891.	Total Mortality for May, 1890.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 yrs.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	3	5												1		1		1					2	1
CROUP . . . . .	6	5			1	1	2	1	1	6												2	4	
CARCUNCLE . . . . .																								
CHOLERA MORBUS . . . . .		1																						
CHOLERA INFANTUM . . . . .	2	1	1		1					2												1	1	
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2	4															1	1					2	
DYSENTERY . . . . .																								
DIPHTHERIA . . . . .	24	56	1			3	4	4	2	14	8	1				1						13	11	
ERYSIPELAS . . . . .	8	5	2							2			1		1	3			1			3	5	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	8	1		1						1			1	2	1		1	1	1			4	4	
MEASLES . . . . .	4	1			1	2			1	4												3	1	
PURPURA . . . . .	1		1							1												1		
PUERPERAL FEVER . . . . .	2	1											1	1									2	
PYŒMIA . . . . .	1	2													1							1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	2	1	1							1						1							2	
SCARLATINA . . . . .	8	7			1	1			3	5	3											4	4	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1	2	1							1													1	
SYPHILIS . . . . .																								
SEPTICŒMIA . . . . .	4	4											1		1	2						2	2	
TONSILLITIS . . . . .	1	1	1							1													1	
TYPHOID FEVER . . . . .	8	7							1	1			5	2								3	5	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	2		1		1	1			3												2	1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	1	1													1							1		
II. CONSTITUTIONAL.																								
CANCER . . . . .	28	33											2	2	4	9	3	5	2	1		9	19	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	18	19	2	3	2	5	4	1		17			1									7	11	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	23	25	14	3	1	3	1			22						1						11	12	
PHTHISIS PULMONALIS . . . . .	129	121					2			2	3	22	48	27	11	9	3	4				60	89	
OTHER CONSTITUTIONAL DISEASES . . . . .	16	13		1	1	1		1		4	2	2	3	1	2		1	1				12	4	



of May, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for May, 1891.	Total Mortality for May, 1890.	AGE.																		SEX.			
			Under 2 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	28	35										1	3	8	5	4	7					11	17	
Bright's Disease . . . . .	14	10									1	1		2	4	4	2					6	8	
Bronchitis . . . . .	62	31	4	7	12	6	2		1	32	1	2	2		3	5	9	7	1			30	32	
Heart Disease . . . . .	68	56				1		1		2	2	7	3	8	9	14	13	6	4			32	36	
Meningitis . . . . .	26	16	1	2	5	5	3	1		17	1	1		3	2		1	1				13	13	
Nephritis . . . . .	13	11					1			1		2	1	1	1	3	2	2				8	5	
Pleurisy . . . . .																								
Pneumonia . . . . .	131	87	3	2	9	9	2	2	1	28	2	4	8	16	15	15	14	21	6	2		71	60	
Other Local Diseases . . . . .	117	143	6	1	6	3	1	1		17	3	7	13	7	19	13	18	15	4	1		56	61	
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	1	1	1							1												1		
Inanition . . . . .	19	6	14	1	2	1			1	19												11	8	
Old Age . . . . .	20	25															2	6	10	2		7	1	
Premature Birth . . . . .	17	17	16	1						17												12	5	
Puerp'l Diseases (not including Puerp'l Fever)	3	3											2	1									3	
Other Developmental Diseases . .	22	16	13		1				1	15				1			4	1		1		7	15	
V. VIOLENT.																								
Accidental . . . . .	31	28	1	1			2	1	2	7	2	2	2	9	3	2	1	2	1			24	7	
Homicidal . . . . .	3												1	1			1						3	
Suicidal . . . . .	4	1													2	1	1					4		
Other Violent Causes . . . . .	3													1		1	1					1	2	
Unknown Causes . . . . .	6	6	2	2						4				1		1						4	2	
TOTAL FROM ALL CAUSES . . . . .	891	790	85	26	42	42	25	13	14	247	27	51	97	88	81	88	80	87	37	8		439	452	
TOTAL FROM ZYMOTIC DISEASES . . . . .	89																							
INCLUDING TUBERCULAR DISEASES . . . . .	276	87	8	2	4	8	7	5	8	42	11	1	9	6	5	7	3	3	2			42	47	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	214	211	16	7	4	9	7	2		45	5	24	54	30	17	18	8	10	2	1		99	115	
“ “ LOCAL do. . . . .	459	389	14	12	31	24	9	5	2	97	9	24	29	38	56	57	60	63	22	4		227	232	
“ “ DEVELOPMENTAL do. . . . .	82	68	44	2	3	1			2	52			2	2			6	7	10	3		38	44	
“ “ VIOLENT CAUSES . . . . .	41	29	1	1			2	1	2	7	2	2	3	11	3	5	3	4	1			29	12	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of May, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING MAY, 1891.			CASES REPORTED DURING MAY, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	81	....	Diphtheria . . . . .	141	....
Measles . . . . .	310	1	Measles . . . . .	92	....
Small Pox . . . . .	....	....	Small Pox . . . . .	1	....
Scarlatina . . . . .	130	....	Scarlatina . . . . .	118	1
Typhoid Fever . . . . .	28	....	Typhoid Fever . . . . .	34	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE SIGNAL OFFICE, BOSTON.

For the month of May, 1891. as reported by J. W. SMITH, Sergeant Signal Corps, U. S. A.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.69	51	81	E.	.00	Mean Barometer, 30.02.
2	29.99	60	58	N.W.	.00	Highest Barometer, 30.48, on the 20th.
3	29.91	53	84	S.	.09	Lowest Barometer, 29.69, on the 16th.
4	29.95	56	63	W.	T	Monthly Range of Barometer, —
5	29.90	42	61	W.	.00	Mean Temperature, 56.0.
6	29.89	42	79	W.	T	Highest Temperature, 81.0, on the 11th.
7	30.02	46	63	N.W.	.00	Lowest Temperature, 33.0, on the 6th.
8	29.97	54	60	W.	.00	Monthly Range of Temperature, —
9	29.98	52	82	N.E.	.00	Greatest Daily Range of Temperature, 40.0 on the 10th.
10	29.87	60	72	S.W.	.00	Least Daily Range of Temperature, 6.0 on the 29th.
11	29.83	71	53	S.W.	.00	Mean Daily Range of Temperature, —
12	30.12	51	76	N.E.	T	Mean Daily Dew-point, 44.7.
13	30.08	50	80	N.	.08	Mean Daily Relative Humidity, 70.5.
14	30.06	59	66	S.W.	.00	Prevailing Direction of Wind, S.W.
15	30.15	52	76	E.	.00	Total Movement of Wind, 8,338 Miles.
16	29.79	57	100	E.	.8	Highest Velocity of Wind and Direction, 36 miles S.W. on the 4th.
17	29.88	51	47	N.W.	.26	Number of Foggy Days, 0.
18	29.90	52	48	S.W.	.01	“ Clear “ 7.
19	30.26	56	49	W.	.00	“ Fair “ 16.
20	30.47	62	71	S.	.00	Number of Cloudy “ 8.
21	30.31	66	72	S.W.	T	Total Number of Days on which Rain or Snow fell, 8.
22	29.88	68	74	S.W.	T	Depth of unmelted Snow on ground at end of month, 0.
23	30.12	53	68	E.	.00	Dates of Auroras, none.
24	30.14	56	61	S.W.	.00	Dates of Solar Halos, 2d, 6th, 15th.
25	30.00	62	65	S.W.	.00	Dates of Lunar Halos, 20th.
26	29.93	64	81	S.W.	.03	Mean Max. Temp., 64.6.
27	30.22	52	60	E.	T	Mean Min. Temp., 47.0.
28	30.21	58	50	S.W.	.00	Thunder storm, none.
29	30.04	52	98	N.E.	.26	Dates of Frosts, 5th and 6th
30	29.96	60	87	W.	.01	COMPARATIVE TEMPERATURE.
31	29.98	62	91	E.	T	COMPARATIVE PRECIPITATIONS.
TOTALS .....	—	—	—	—	1.56	
MEANS .....	30.02	56	70	S.W.	.05	

Average monthly temperature for 21 years, 56.2.

Average monthly precipitation for 21 years, 3.49.

T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of June, 1891.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of June, 1891, . . . . . 736  
Population estimated at 459,062. Rate per 1,000 inhabitants, 19.23

Total number . . . . . 736

### SEX.

Males . . . . . 360  
Females . . . . . 376

### CONDITION.

Married . . . . . 216  
Single . . . . . 394  
Widows . . . . . 88  
Widowers . . . . . 32  
Unknown . . . . . 6

### COLOR.

White . . . . . 715  
Colored . . . . . 21

Total deaths of children { Under 1 year . . . . . 152  
Under 2 years . . . . . 187  
Under 5 years . . . . . 228

Diarrhoeal diseases { Under 1 year . . . . . 24  
Under 2 years . . . . . 24  
Under 5 years . . . . . 24  
All ages . . . . . 27

### NATIVITY.

United States . . . . . 477  
Ireland . . . . . 148  
England . . . . . 14  
Scotland . . . . . 11  
Germany . . . . . 9  
British America . . . . . 38  
Italy . . . . . 9  
Other Countries . . . . . 14  
Unknown . . . . . 16

### PARENTAGE.

United States . . . . . 175  
Irish . . . . . 280  
English . . . . . 16  
Scotch . . . . . 9  
German . . . . . 16  
British American . . . . . 33  
Italian . . . . . 13  
Other Countries . . . . . 56  
Mixed . . . . . 58  
Unknown . . . . . 80

Still-births during the month . . . . . 51



# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for June, 1891.	Total Mortality for June, 1890.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	2											4	3									4	3
CROUP . . . . .	1	6									1													1
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .		1																						
CHOLERA INFANTUM . . . . .	23	5	2	12	9					23													13	10
CEREBRO-SPINAL MENINGITIS . . . . .	1	2										1												1
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2	5		1						1								1						2
DYSENTERY . . . . .	2	1													1				1			1	1	1
DIPHTHERIA . . . . .	16	29			2	5	4	2	13	3												8	8	
ERYSIPELAS . . . . .	4	1									1			1				1	1			2	2	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	3																2	1				2	1	
MEASLES . . . . .	2	8		1					1	2												1	1	
PURPURA . . . . .																								
PUERPERAL FEVER. . . . .	1	2										1												1
PYŒMIA . . . . .	2														1	1						1	1	
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	2	3										1				1								2
SCARLATINA . . . . .	2	2									1			1								1	1	
SMALL POX . . . . .																								
STPHILIS (CONGENITAL) . . . . .	1	1	1							1														1
STPHILIS . . . . .																								
SEPTICŒMIA . . . . .	11	1											2	1	4	3		1				4	7	
TONSILLITIS . . . . .																								
TYPHOID FEVER. . . . .	4	8											3	1								4		
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	5	1							1												1		
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	27	31										1		4	3	7	4	7	1			5	22	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	25	22	1	3	4	5	3		3	10	4			2								11	14	
MARASMUS, SCROFULA AND TABES MESENTERICA	21	18	7	3	4	2				16						1		3	1			11	10	
PHTHISIS PULMONALIS . . . . .	119	107	1	1					1	3		10	30	38	16	15	5	2				54	65	
OTHER CONSTITUTIONAL DISEASES . . . . .	18	13				1	1		1	3		4	4	2	4		1					9	9	

# of June, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for June, 1891.	Total Mortality for June, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 yrs.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	33	19											3	2	8	6	6	6	2			12	21	
BRIGHT'S DISEASE . . . . .	10	11										1	1	3	1	2	2					5		
BRONCHITIS . . . . .	41	22	5	5	8	6	2			26		1	3	1		3	3	3	1			22	19	
HEART DISEASE . . . . .	45	56					1			3	4	1	2	5	4	11	2	10	5	1		18	27	
MENINGITIS . . . . .	15	17		1	5	5		1	1	13		1				1						7	8	
NEPHRITIS . . . . .	10	8											1	1	1	1	3	2	1			5	5	
PLEURISY . . . . .																								
PNEUMONIA . . . . .	60	38	1	3	4	8				2	18	3	2	6	6	1	3	10	6	3	1	1	33	27
OTHER LOCAL DISEASES . . . . .	121	110	17	5	7	4	4	2		39	3	3	7	8	17	16	13	10	5			65	56	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	2	1								1											1		
INANITION . . . . .	7	9	4	1	1						6			1								2	5	
OLD AGE . . . . .	23	18																2	9	9	2	1	11	12
PREMATURE BIRTH . . . . .	21	14	21								21											7	14	
PUERP'L DISEASES (not including Puerp'l Fever)		3																						
OTHER DEVELOPMENTAL DISEASES . .	14	16	9			1					10					2			2			6	8	
V. VIOLENT.																								
ACCIDENTAL . . . . .	35	38	1		1	1	2			2	7	1	5	2	6	5	3	5		1		30	5	
HOMICIDAL . . . . .		1																						
SUICIDAL . . . . .	1	6												1								1		
OTHER VIOLENT CAUSES . . . . .	2	1	1								1			1								1	1	
UNKNOWN CAUSES . . . . .	2	7													1			1				2		
TOTAL FROM ALL CAUSES . . . . .	736	669	72	36	44	35	18	7	16	238	17	33	75	85	76	67	65	57	27	4	2	360	376	
TOTAL FROM ZYMOTIC DISEASES . . . . .	85																							
INCLUDING TUBERCULAR DISEASES . . . .	260	82	3	14	10	2	5	4	3	41	6	2	11	6	7	5	2	4	2			42	43	
TOTAL FROM CONSTITUTIONAL DISEASES . . .	210	191	9	7	8	8	4		5	41	4	15	34	46	23	23	10	12	2			90	120	
" " LOCAL do. . . . .	335	281	23	14	24	23	7	3	6	100	7	11	26	25	39	36	46	31	12	1	1	167	168	
" " DEVELOPMENTAL do. . . . .	66	62	35	1	1	1				38			1		2		2	9	11	2	1	27	39	
" " VIOLENT CAUSES . . . . .	38	46	2		1	1	2		2	8	1	5	3	7	5	3	5			1		32	6	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of June, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING JUNE, 1891.			CASES REPORTED DURING JUNE, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	49	....	Diphtheria . . . . .	110	....
Measles . . . . .	250	5	Measles . . . . .	246	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	97	....	Scarlatina . . . . .	76	....
Typhoid Fever . . . . .	42	....	Typhoid Fever . . . . .	39	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU, BOSTON.

For the month of June, 1891, as reported by J. W. SMITH, observer in charge.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	29.90	59	83	E.	.00	Mean Barometer, 29.94. Highest Barometer, 30.23, on the 6th. Lowest Barometer, 29.70, on the 28th. Monthly Range of Barometer, — Mean Temperature, 65.0. Highest Temperature, 96.0, on the 16th. Lowest Temperature, 45.0, on the 5th. Monthly Range of Temperature, — Greatest Daily Range of Temperature, 30.0 on the 8th. Least Daily Range of Temperature, 5.0 on the 18th. Mean Daily Range of Temperature, — Mean Daily Dew-point, 64.0. Mean Daily Relative Humidity, 70.8. Prevailing Direction of Wind, W. Total Movement of Wind, 7,527 Miles. Highest Velocity of Wind and Direction, 28 miles N.E. on the 18th. Number of Foggy Days, 0. " Clear " 7. " Fair " 11. Number of Cloudy " 12. Total Number of Days on which Rain or Snow fell, 6. Depth of unmelted Snow on ground at end of month, 0. Dates of Auroras, none. Dates of Solar Halos, none. Dates of Lunar Halos, 2nd. Mean Max. Temp., 73.4. Thunder storm, 24th. Dates of Frosts, none.	
2	29.91	72	85	S.W.	.29		
3	30.00	58	94	N.E.	T		
4	30.08	49	90	N.E.	.36		
5	30.18	56	46	N.W.	.00		
6	30.18	59	45	W.	.00		
7	30.09	61	61	W.	.00		
8	30.10	68	33	W.	.00		
9	30.08	72	47	W.	.00		
10	30.06	72	61	W.	.00		
11	29.98	76	66	S.W.	.00	<div>COMPARATIVE TEMPERATURE.</div> <div>COMPARATIVE PRECIPITATIONS.</div> <div>Inches.</div> 1871 . . . . . 66 1872 . . . . . 68 1873 . . . . . 68 1874 . . . . . 66 1875 . . . . . 67 1876 . . . . . 68 1877 . . . . . 67 1878 . . . . . 64 1879 . . . . . 64 1880 . . . . . 67 1881 . . . . . 61 1882 . . . . . 66 1883 . . . . . 69 1884 . . . . . 66 1885 . . . . . 66 1886 . . . . . 63 1887 . . . . . 64 1888 . . . . . 67 1889 . . . . . 68 1890 . . . . . 64 1891 . . . . . 65	
12	29.92	74	60	W.	T		
13	30.07	72	58	W.	.00		
14	30.01	76	50	W.	.00		
15	29.91	81	52	W.	.00		
16	29.79	84	51	W.	.00		
17	29.87	61	89	N.E.	T		
18	29.90	52	95	N.E.	.82		
19	29.84	54	98	N.E.	.06		
20	29.92	57	100	N.E.	.14		
21	29.94	62	90	E.	.00		
22	29.82	62	98	N.W.	1.39		
23	29.78	68	71	E.	.00		
24	29.88	68	62	N.W.	.00		
25	29.89	66	70	N.W.	.00		
26	29.82	65	80	E.	T		
27	29.79	60	63	N.W.	T		
28	29.79	60	61	N.W.	.00		
29	29.80	66	70	N.E.	T		
30	29.96	60	80	E.	T		
TOTALS .....	—	—	—	—	3.06		
MEANS .....	29.94	65.0	70.8	W.	1.06		

Average monthly temperature for 21 years, 65.6.

Average monthly precipitation for 21 years, 3.28.

T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of July, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of July, 1891, . . . . . 1006  
Population estimated at 459,062. . . . . Rate per 1,000 inhabitants, 26.29

Total number . . . . . 1006		NATIVITY.	
SEX.		United States . . . . .	717
Males . . . . .	528	Ireland . . . . .	162
Females . . . . .	478	England . . . . .	19
CONDITION.		Scotland . . . . .	8
Married . . . . .	204	Germany . . . . .	16
Single . . . . .	689	British America . . . . .	49
Widows . . . . .	79	Italy . . . . .	5
Widowers . . . . .	22	Other Countries . . . . .	17
Unknown . . . . .	12	Unknown . . . . .	18
COLOR.		PARENTAGE.	
White . . . . .	985	United States . . . . .	228
Colored . . . . .	21	Irish . . . . .	334
Total deaths of children	Under 1 year . . . . .	English . . . . .	27
	Under 2 years . . . . .	Scotch . . . . .	9
	Under 5 years . . . . .	German . . . . .	32
Diarrhœal diseases	Under 1 year . . . . .	British American . . . . .	62
	Under 2 years . . . . .	Italian . . . . .	15
	Under 5 years . . . . .	Other Countries . . . . .	102
	All ages . . . . .	Mixed . . . . .	96
		Unknown . . . . .	101
		Still-births during the month . . . . .	56

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for July, 1801.	Total Mortality for July, 1800.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
			I. ZYMOTICS.																					
ALCOHOLISM . . . . .	5	9											2	2	1								4	1
CROUP . . . . .	1	1						1		1												1		
CARBUNCLE . . . . .		3																						
CHOLERA MORBUS . . . . .	10	7			1					1	2	1	1		1	1		1	2			6	4	
CHOLERA INFANTUM . . . . .	236	178	31	80	98	22	3		1	235	1											131	105	
CEREBRO-SPINAL MENINGITIS . . . . .	3	3		2	1					3												1	2	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	18	9	6	5	3	2				16							2					8	10	
DYSENTERY . . . . .	7	4			1					1							2	3	1				7	
DIPHTHERIA . . . . .	6	28			1		1	2	1	5			1										6	
ERYSIPELAS . . . . .	2	2	1							1								1				1	1	
INTERMITTENT FEVER . . . . .	1														1								1	
INFLUENZA . . . . .	1																	1					1	
MEASLES . . . . .		2																						
PURPURA . . . . .																								
PUERPERAL FEVER. . . . .	1												1										1	
PYŒMIA . . . . .	3	3												1	1		1						3	
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .																								
SCARLATINA . . . . .		1																						
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	7	4	6		1					7												3	4	
SYPHILIS . . . . .																								
SEPTICŒMIA . . . . .	1												1										1	
TONSILLITIS . . . . .																								
TYPHOID FEVER. . . . .	7	9											4	2	1							5	2	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	7			1					1													1	
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	1			1						1													1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	27	24													3	7	8	7	2			8	19	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	20	18		5	6	2	4	1	1	19	1											7	13	
MARASMUS, SCHRŒFULA AND TABES MESENTERICA . . . . .	53	35	21	16	9	3		1		50								1	1	1		28	25	
PHTHISIS PULMONALIS . . . . .	115	113	1		2	2				5	1	7	46	26	11	11	5	2	1			56	59	
OTHER CONSTITUTIONAL DISEASES . . . . .	8	9									1	2	2	1	1		1					3	5	

# of July, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for July, 1891.	Total Mortality for July, 1890.	AGE.																			SEX.	
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
APOPLEXY . . . . .	22	28											2	5	2	5	4	3	1			13	9
BRIGHT'S DISEASE . . . . .	12	14									1	1		3	4	3						5	
BRONCHITIS . . . . .	31	21	2	2	3	8		1	16			1	1	3	2	2	5	1				15	16
HEART DISEASE . . . . .	47	58	1					1	2	1	5	2	6	5	9	7	7	3				27	20
MENINGITIS . . . . .	32	28	3	4	6	3	3	2	1	22	2	3	3	1	1							17	15
NEPHRITIS . . . . .	17	17		1						1	1		2	1	5	3	3	1				10	7
PLEURISY . . . . .	1																	1				1	
PNEUMONIA . . . . .	35	41	2	4	2	6	1		1	16		1	3	4	5	3	2		1			20	15
OTHER LOCAL DISEASES . . . . .	164	143	12	26	24	12	4	1	1	80	4	3	7	12	12	14	22	9	1			89	75
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .		1																					
INANITION . . . . .	13	12	7	3	1				1	12							1					8	5
OLD AGE . . . . .	21	14													1		2	5	10	3		12	9
PREMATURE BIRTH . . . . .	18	13	18							18												12	6
PUERP'L DISEASES (not including Puerp'l Fever)		4																					
OTHER DEVELOPMENTAL DISEASES . .	19	32	10	2	1	1	2			16		1					1	1				5	14
V. VIOLENT.																							
ACCIDENTAL . . . . .	33	34	1							1	5	3	12	6	3	2		1				28	5
HOMICIDAL . . . . .		1																					
SUICIDAL . . . . .	3														1		2					2	1
OTHER VIOLENT CAUSES . . . . .	1	2														1							1
UNKNOWN CAUSES . . . . .	3	9		1	1					2				1								2	1
TOTAL FROM ALL CAUSES . . . . .	1006	941	122	152	162	61	18	10	7	532	19	27	89	69	63	60	69	45	24	4		528	478
TOTAL FROM ZYMOTIC DISEASES . . . . .	311																						
INCLUDING TUBERCULAR DISEASES . . . .	486	270	44	88	107	24	4	3	2	272	3	1	10	5	5	1	5	6	3			160	161
TOTAL FROM CONSTITUTIONAL DISEASES . .	223	199	22	21	17	7	4	2	1	74	3	9	48	30	19	19	14	5	2			102	121
“ “ LOCAL do. . . . .	361	350	20	37	35	29	8	5	3	137	8	13	19	27	39	37	44	27	9	1		197	164
“ “ DEVELOPMENTAL do. . . . .	71	76	35	5	2	1	2		1	46		1			1		4	6	10	3		37	34
“ “ VIOLENT CAUSES . . . . .	37	37	1							1	5	3	12	6	4	3	2	1				30	7

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of July, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING JULY, 1891.			CASES REPORTED DURING JULY, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	31	....	Diphtheria . . . . .	73	....
Measles . . . . .	41	....	Measles . . . . .	216	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	49	....	Scarlatina . . . . .	72	....
Typhoid Fever . . . . .	62	....	Typhoid Fever . . . . .	48	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....



# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU, BOSTON.

For the month of July, 1891, as reported by J. W. SMITH, observer in charge.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.08	65	78	E.	.00	Mean Barometer, 30.02.
2	30.06	64	80	S.W.	T	Highest Barometer, 30.40, on the 22nd.
3	29.91	66	78	S.	.00	Lowest Barometer, 29.73, on the 8th.
4	29.76	69	69	S.	.57	Monthly Range of Barometer, —
5	29.80	68	63	S.W.	.09	Mean Temperature, 69.0.
6	29.83	66	58	W.	.00	Highest Temperature, 90.0, on the 13th.
7	29.81	66	76	W.	.15	Lowest Temperature, 56.0, on the 28th.
8	29.83	66	73	N.W.	.62	Monthly Range of Temperature, —
9	30.03	63	76	N.E.	T	Greatest Daily Range of Temperature, 25.0 on the 13th.
10	30.25	67	61	N.W.	.00	Least Daily Range of Temperature, 7.0 on the 29th.
11	30.27	71	53	S.	.00	Mean Daily Range of Temperature, —
12	30.14	66	85	E.	.00	Mean Daily Dew-point, 58.2.
13	30.09	78	65	S.W.	.00	Mean Daily Relative Humidity, 72.0.
14	30.00	78	75	S.W.	T	Prevailing Direction of Wind, S.W.
15	29.90	78	81	S.W.	T	Total Movement of Wind, 7,627 Miles.
16	29.95	77	67	W.	.05	Highest Velocity of Wind and Direction, 30 miles S.W. on the 15th.
17	30.07	78	67	W.	.00	Number of Foggy Days, 0.
18	30.00	72	76	Calm.	.05	" Clear " 10.
19	29.92	70	75	S.W.	.22	" Fair " 12.
20	30.16	74	74	S.W.	.00	Number of Cloudy " 9.
21	30.25	72	84	S.W.	.00	Total Number of Days on which Rain or Snow fell, 10.
22	30.37	72	67	E.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	30.31	68	66	S.W.	.00	Dates of Auroras, 0.
24	30.01	70	83	S.W.	.64	Dates of Solar Halos, 8th, 10th, 20th.
25	29.89	66	75	S.W.	.00	Dates of Lunar Halos, 19th, 20th.
26	29.94	76	65	N.W.	.00	Mean Max. Temp., 76.5.
27	29.96	69	58	W.	.00	Thunder storm, 4th.
28	30.06	67	55	S.W.	.00	Dates of Frosts, none.
29	30.07	66	91	S.W.	.53	Mean Min. Temp., 61.4.
30	29.89	62	94	E.	T	
31	29.86	64	76	N.W.	.91	
TOTALS .....	—	—	—	—	3.73	
MEANS ..	30.02	69.0	72.0	S.W.	1.20	

Average monthly temperature for 21 years, 71.0.

Average monthly precipitation for 21 years, 3.58.

T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of August, 1891.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of August, 1891, . . . . . 977

Population estimated at 459,062.

Rate per 1,000 inhabitants, 25.53

Total number . . . . . 977

### SEX.

Males . . . . . 515

Females . . . . . 462

### CONDITION.

Married . . . . . 224

Single . . . . . 629

Widows . . . . . 85

Widowers . . . . . 30

Unknown . . . . . 9

### COLOR.

White . . . . . 944

Colored . . . . . 33

Total deaths of children { Under 1 year . . . . . 365  
Under 2 years . . . . . 425  
Under 5 years . . . . . 453

Diarrheal diseases { Under 1 year . . . . . 183  
Under 2 years . . . . . 215  
Under 5 years . . . . . 220  
All ages . . . . . 254

### NATIVITY.

United States . . . . . 680

Ireland . . . . . 178

England . . . . . 20

Scotland . . . . . 8

Germany . . . . . 18

British America . . . . . 42

Italy . . . . . 4

Other Countries . . . . . 19

Unknown . . . . . 8

### PARENTAGE.

United States . . . . . 210

Irish . . . . . 332

English . . . . . 20

Scotch . . . . . 11

German . . . . . 34

British American . . . . . 62

Italian . . . . . 18

Other Countries . . . . . 92

Mixed . . . . . 104

Unknown . . . . . 94

Still-births during the month . . . . . 49

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for August, 1891.	Total Mortality for August, 1890.	AGE.																		SEX.		
																					Males.	Females.	
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.			100 years and over.
I. ZYMOTICS.																							
ALCOHOLISM . . . . .	6	5											1	2	2	1						6	
CROUP . . . . .	2	1				2				2													2
CARBUNCLE . . . . .	1														1								
CHOLERA MORBUS . . . . .	6	10												1	2	1	2					3	3
CHOLERA INFANTUM . . . . .	206	206	49	60	61	31	5			206												118	88
CEREBRO-SPINAL MENINGITIS . . . . .	1	3				1				1													1
CONGESTIVE FEVER . . . . .																							
DIARRHŒA . . . . .	24	19	2	3	5					10					1	2	1	1	7	2		11	13
DYSENTERY . . . . .	18	6	2	1		1				4		1	2			2	3	6				5	13
DIPHTHERIA . . . . .	8	27			1	1		1	1	4	4											5	3
ERYSIPELAS . . . . .		1																					
INTERMITTENT FEVER . . . . .																							
INFLUENZA . . . . .																							
MEASLES . . . . .		3																					
PURPURA . . . . .	2												1		1							1	1
PUERPERAL FEVER . . . . .	1	1											1										1
PYÆMIA . . . . .	1													1								1	
REMITTENT FEVER . . . . .																							
RHEUMATISM . . . . .																							
SCARLATINA . . . . .	1	2				1				1													1
SMALL POX . . . . .																							
SYPHILIS (CONGENITAL) . . . . .		5																					
SYPHILIS . . . . .																							
SEPTICÆMIA . . . . .	1														1								1
TONSILLITIS . . . . .																							
TYPHOID FEVER . . . . .	14	20									1	3	6	3	1							9	5
TYPHUS FEVER . . . . .																							
WHOOPING COUGH . . . . .	6	2	1	2	1	1	1			6												1	5
YELLOW FEVER . . . . .																							
OTHER ZYMOTIC DISEASES . . . . .	1														1							1	
II. CONSTITUTIONAL.																							
CANCER . . . . .	36	28											1	6	9	9	5	6				9	27
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	12	11		1	2	5	1	2		11			1									5	7
MALARUSM, SCROFULA AND TABES MESENTERICA	49	55	29	8	8	1				46					1			2				26	23
PHTHISIS PULMONALIS . . . . .	105	120	2	1		1				4	1	12	32	21	20	7	6	2				57	48
OTHER CONSTITUTIONAL DISEASES . . . . .	11	18										3	3	2		1	1	1				5	6



# of August, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for August, 1891.	Total Mortality for August, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 yrs. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	18	26											1	1	1	3	5	6	1			8	10	
BRIGHT'S DISEASE . . . . .	14	8										1	1	4	2	1	2	2	1			8		
BRONCHITIS . . . . .	20	23			3	2	2	1		8		1	2	2		2	2	3				9	11	
HEART DISEASE . . . . .	53	48							1	1			3	4	12	10	11	7	5			23	30	
MENINGITIS . . . . .	27	15	3	3	5	4	2	1	1	19	3	1	1	1		2						18	9	
NEPHRITIS . . . . .	11	8	1							1		1	2	3	1		1	1	1			7	4	
PLEURISY . . . . .																								
PNEUMONIA . . . . .	27	33	2	2	1	2	1	1	1	10	1	1	3	3	4	2	2	1				13	14	
OTHER LOCAL DISEASES . . . . .	152	175	24	15	15	6		1	2	63	3	8	7	15	10	16	15	9	5	1		81	71	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	1	1							1												1		
INANITION . . . . .	12	9	7	5						12												9	3	
OLD AGE . . . . .	27	17															1	10	13	3		11	16	
PREMATURE BIRTH . . . . .	15	12	14		1					15												5	10	
PUERP'L DISEASES (not including Puerp'l Fever)	2	2											2										2	
OTHER DEVELOPMENTAL DISEASES . .	25	35	19	1	1	1				22							2	1				13	12	
V. VIOLENT.																								
ACCIDENTAL . . . . .	50	35	1	1	1		1	1		5	6	10	11	10	2	2	2	2				39	11	
HOMICIDAL . . . . .	4	2											2	1	1							3	1	
SUICIDAL . . . . .	2	9												2								2		
OTHER VIOLENT CAUSES . . . . .	3					1				1					1	1						2	1	
UNKNOWN CAUSES . . . . .	2	6												1	1								2	
TOTAL FROM ALL CAUSES . . . . .	977	1007	157	103	105	60	14	8	6	453	19	42	83	85	75	61	61	66	28	4		515	462	
TOTAL FROM ZYMOTIC DISEASES . . . .	299	311	54	66	68	37	7	1	1	234	5	4	11	9	10	5	6	13	2			161	138	
INCLUDING TUBERCULAR DISEASES . . .	450																							
TOTAL FROM CONSTITUTIONAL DISEASES . .	213	232	31	10	10	7	1	2		61	1	15	37	29	30	17	12	11				102	111	
“ “ LOCAL do. . . . .	322	336	30	20	24	14	5	4	5	102	7	13	20	33	30	36	38	29	13	1		167	155	
“ “ DEVELOPMENTAL do. . . . .	82	76	41	6	2	1				50			2				3	11	13	3		39	43	
“ “ VIOLENT CAUSES . . . . .	59	46	1	1	1	1	1	1		6	6	10	13	13	4	3	2	2				46	13	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of August, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING AUGUST, 1891.			CASES REPORTED DURING AUGUST, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	36	....	Diphtheria . . . . .	69	....
Measles . . . . .	20	5	Measles . . . . .	71	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	40	....	Scarlatina . . . . .	30	....
Typhoid Fever . . . . .	111	....	Typhoid Fever . . . . .	102	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU. BOSTON.

For the month of August, 1891. as reported by J. W. SMITH, Local Forecast Official and Observer, Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.79	66	62	S.W.	.00	Mean Barometer, 30.006.
2	29.74	68	76	S.W.	.28	Highest Barometer, 30.298, on the 26th.
3	30.00	66	66	S.E.	.00	Lowest Barometer, 29.709, on the 1st.
4	30.12	66	81	E.	.00	Monthly Range of Barometer, 0.589.
5	30.18	64	86	E.	.00	Mean Temperature, 70.0.
6	30.14	68	70	E.	.26	Highest Temperature, 90.0, on the 12th.
7	30.03	72	72	S.W.	.14	Lowest Temperature, 54.0, on the 1st.
8	29.95	74	63	N.W.	.22	Monthly Range of Temperature, 36.0.
9	30.00	66	72	E.	.00	Greatest Daily Range of Temperature, 24.0 on the 1st.
10	29.94	79	68	W.	.02	Least Daily Range of Temperature, 3.0 on the 3rd.
11	30.00	78	62	W.	.00	Mean Daily Range of Temperature, 13.7.
12	29.85	81	80	W.	.14	Mean Daily Dew-point, 62.0.
13	29.97	71	70	E.	.00	Mean Daily Relative Humidity, 78.0.
14	30.06	72	68	S.W.	.00	Prevailing Direction of Wind, S.W.
15	30.04	66	86	S.E.	.45	Total Movement of Wind, 7,009 Miles.
16	30.07	64	87	N.	T	Highest Velocity of Wind and Direction, 35 miles S.W. on the 21st.
17	30.03	72	72	S.W.	.00	Number of Clear Days, 9.
18	29.92	74	77	S.W.	.00	Number of Fair Days, 14.
19	29.98	67	80	E.	.00	Number of Cloudy Days, 8.
20	30.00	72	79	S.W.	.00	Total Number of Days on which Rain or Snow fell, 13.
21	29.80	74	80	S.W.	.00	Dates of Solar Halos,
22	29.83	79	88	S.W.	.53	Dates of Lunar Halos, 26th.
23	29.95	72	80	E.	.00	Mean Max. Temp., 76.8.
24	29.98	76	90	S.	.14	Thunder storm, 7th and 12th.
25	30.15	81	80	S.W.	.00	Dates of Frosts, none.
26	30.27	67	74	E.	.00	
27	30.08	65	98	E.	.05	
28	29.86	70	98	S.	1.31	
29	30.07	62	56	S.W.	.00	
30	30.16	58	94	N.E.	.25	
31	30.21	58	94	N.E.	.08	
TOTALS .....	—	—	—	—	3.87	
MEANS ..	30.006	70.0	78	S.W.	.124	

Average monthly temperature for 21 years, 69.1.

Average monthly precipitation for 21 years, 4.41.

T Indicates trace of precipitation.

Total Deficiency in Precipitation during month, 0.60.  
Total Deficiency in Precipitation since January 1st, 4.83.

Total Excess in Temperature during month, 45.0.  
Total Excess in Temperature since January 1st, 277.0.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of September, 1891.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of September, 1891, . . . . . 853  
Population estimated at 459,062. . . . . Rate per 1,000 inhabitants, 22.29

Total number . . . . . 853

### SEX.

Males . . . . . 420

Females . . . . . 433

### CONDITION.

Married . . . . . 223

Single . . . . . 529

Widows . . . . . 65

Widowers . . . . . 30

Unknown . . . . . 6

### COLOR.

White . . . . . 834

Colored . . . . . 19

Total deaths of children { Under 1 year . . . . . 255  
Under 2 years . . . . . 320  
Under 5 years . . . . . 347

Diarrhœal diseases { Under 1 year . . . . . 80  
Under 2 years . . . . . 100  
Under 5 years . . . . . 100  
All ages . . . . . 112

### NATIVITY.

United States . . . . . 573

Ireland . . . . . 153

England . . . . . 20

Scotland . . . . . 4

Germany . . . . . 14

British America . . . . . 48

Italy . . . . . 5

Other Countries . . . . . 20

Unknown . . . . . 16

### PARENTAGE.

United States . . . . . 185

Irish . . . . . 285

English . . . . . 24

Scotch . . . . . 6

German . . . . . 26

British American . . . . . 55

Italian . . . . . 20

Other Countries . . . . . 83

Mixed . . . . . 80

Unknown . . . . . 89

Still-births during the month . . . . . 40



# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for September, 1891.	Total Mortality for September, 1890.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 yrs. and over.	Males.	Females.	
			I. ZYMOTICS.																					
ALCOHOLISM . . . . .	6	2											1	4	1								5	1
CROUP . . . . .	1	4					1			1													1	
CARBUNCLE . . . . .		1																						
CHOLERA MORBUS . . . . .	4	3												1	2	1								4
CHOLERA INFANTUM . . . . .	83	73	22	19	27	15				83													49	34
CEREBRO-SPINAL MENINGITIS . . . . .	1	1					1			1														1
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	17	25	3	2	4	4				13			2				1		1				4	13
DYSENTERY . . . . .	8	6			3	1				4						1	1	2					3	5
DIPHTHERIA . . . . .	11	19			3	1	2		1	7	4												3	8
ERYSIPELAS . . . . .																								
INTERMITTENT FEVER . . . . .	1															1							1	
INFLUENZA . . . . .																								
MEASLES . . . . .	1										1													1
PURPURA . . . . .		1																						
PUERPERAL FEVER . . . . .	1	2											1											1
PYŒMIA . . . . .																								
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1	1																1						1
SCARLATINA . . . . .	1	4				1				1														1
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	3	5	2		1					3													2	1
SYPHILIS . . . . .	1																1							1
SEPTICÆMIA . . . . .		2																						
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	20	27					1			1	1	6	16	3	1	1		1					16	13
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	3	3			2		1			3														3
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	3	2			1		1			2		1											3	
II. CONSTITUTIONAL.																								
CANCER . . . . .	22	19											1		5	9	5	2					5	17
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	18	18	1	3	6	4	2			16	1	1											10	8
MARASMUS, SCROFULA AND TABES MESENTERICA	47	42	12	6	19	7				44								1	2				22	25
PHTHISIS PULMONALIS . . . . .	111	101				1				1		11	41	20	17	8	6	6	1				52	59
OTHER CONSTITUTIONAL DISEASES . . . . .	18	15			1	2				3		3	6	5		1							9	9

# of September, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for September, 1891.	Total Mortality for September, 1890.	AGE.																		SEX.	
																					Males.	Females.
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.		

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of September, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING SEPTEMBER, 1891.			CASES REPORTED DURING SEPTEMBER, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	44	....	Diphtheria . . . . .	75	1
Measles . . . . .	15	....	Measles . . . . .	32	2
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	56	....	Scarlatina . . . . .	21	....
Typhoid Fever . . . . .	205	1	Typhoid Fever . . . . .	214	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU OFFICE, BOSTON

For the month of September, 1891. as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.18	60	93	N.E.	.16	Mean Barometer, 30.15.	
2	30.12	64	84	*Calm. N.W.	.00	Highest Barometer, 30.42, on the 30th.	
3	30.16	70	79	S.	.00	Lowest Barometer, 29.79, on the 14th.	
4	30.13	72	73	S.	.00	Monthly Range of Barometer, 0.63.	
5	30.23	62	82	N.E.	.18	Mean Temperature, 67.0.	
6	30.09	60	100	*Calm. N.E.	.12	Highest Temperature, 90.0, on the 18th.	
7	30.08	63	72	N.E.	1.70	Lowest Temperature, 50.0, on the 9th.	
8	29.96	64	60	W.	T	Monthly Range of Temperature, 40.0.	
9	29.99	60	72	W.	.00	Greatest Daily Range of Temperature, 26.0 on the 18th.	
10	29.94	65	68	S.W.	.00	Least Daily Range of Temperature, 3.0 on the 6th and 22nd.	
11	29.96	60	72	S.W.	.00	Mean Daily Range of Temperature, 14.5.	
12	29.85	68	84	S.W.	.00	Mean Daily Dew-point, 58.0.	
13	29.97	70	70	N.W.	.01	Mean Daily Relative Humidity, 78.4.	
14	29.93	70	67	W.	.04	Prevailing Direction of Wind, S.W.	
15	30.00	60	62	E.	.00	Total Movement of Wind, 6,482 Miles.	
16	30.17	64	82	S.W.	.01	Highest Velocity of Wind and Direction, S.W. 27 miles on the 29th.	
17	30.32	65	75	S.W.	.00	Number of Foggy Days,	
18	30.01	77	76	S.W.	T	Number of Clear Days, 18.	
19	29.82	68	80	E.	.01	Number of Fair Days, 6.	
20	30.20	65	68	S.W.	.00	Number of Cloudy Days, 6.	
21	30.09	68	78	S.W.	.00	Total Number of Days on which Rain or Snow fell, 11.	
22	30.15	62	93	N.E.	.04	Depth of unmelted Snow on ground at end of month,	
23	30.09	68	89	E.	T	Dates of Auroras, 9th. Began 7.55 P.M., ended 9.20.	
24	30.23	69	86	S.W.	.00	Dates of Solar Halos,	
25	30.07	76	84	S.W.	.00	Dates of Lunar Halos, 11th and 18th.	
26	30.16	72	75	W.	.00	Mean Max. Temp., 73.9.	
27	30.27	64	85	*Calm. E.	.00	Thunder storm, 17th.	
28	30.27	73	85	S.W.	.00	Dates of Frosts,	
29	30.09	73	88	S.W.	.01		
30	30.35	64	60	N.W.	.01		
TOTALS .....	—	—	—	—	2.29		
MEANS .. ....	30.15	67	78.4	S.W.	.076		
						COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 59	Inches.
						1872 . . . . . 64	1871 . . . . . 1.30
						1873 . . . . . 62	1872 . . . . . 6.04
						1874 . . . . . 64	1873 . . . . . 2.91
						1875 . . . . . 59	1874 . . . . . 2.05
						1876 . . . . . 59	1875 . . . . . 3.12
						1877 . . . . . 64	1876 . . . . . 3.84
						1878 . . . . . 63	1877 . . . . . 0.60
						1879 . . . . . 61	1878 . . . . . 3.47
						1880 . . . . . 64	1879 . . . . . 1.84
						1881 . . . . . 66	1880 . . . . . 2.36
						1882 . . . . . 63	1881 . . . . . 2.50
						1883 . . . . . 59	1882 . . . . . 10.93
						1884 . . . . . 66	1883 . . . . . 1.50
						1885 . . . . . 60	1884 . . . . . 0.31
						1886 . . . . . 63	1885 . . . . . 1.70
						1887 . . . . . 60	1886 . . . . . 2.73
						1888 . . . . . 60	1887 . . . . . 0.97
						1889 . . . . . 63	1888 . . . . . 6.77
						1890 . . . . . 63	1889 . . . . . 8.19
						1891 . . . . . 67	1890 . . . . . 5.04
							1891 . . . . . 2.29

Average monthly temperature for 21 years, 62.4.

Average monthly precipitation for 21 years, 3.12.

T indicates trace of precipitation.

\* Calm is computed from less than four miles in one hour. In cases where "calm" has prevailed during the twenty-four hours, the direction occupying the next highest time is also given.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of October, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of October, 1891, . . . . . 826  
Population estimated at 459,062. Rate per 1,000 inhabitants, 21.59

Total number . . . . .	826	NATIVITY.	
SEX.		United States . . . . .	524
Males . . . . .	427	Ireland . . . . .	176
Females . . . . .	399	England . . . . .	17
CONDITION.		Scotland . . . . .	8
Married . . . . .	227	Germany . . . . .	10
Single . . . . .	463	British America . . . . .	52
Widows . . . . .	96	Italy . . . . .	2
Widowers . . . . .	31	Other Countries . . . . .	20
Unknown . . . . .	9	Unknown . . . . .	17
COLOR.		PARENTAGE.	
White . . . . .	812	United States . . . . .	196
Colored . . . . .	14	Irish . . . . .	306
Total deaths of children {		English . . . . .	16
		Scotch . . . . .	8
		German . . . . .	19
Under 1 year . . . . .		British American . . . . .	53
Under 2 years . . . . .		Italian . . . . .	13
Under 5 years . . . . .		Other Countries . . . . .	73
Diarrhœal diseases {		Mixed . . . . .	78
		Unknown . . . . .	64
		Still-births during the month . . . . .	
		50	
Under 1 year . . . . .			
Under 2 years . . . . .			
Under 5 years . . . . .			
All ages . . . . .			

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for October, 1891.	Total Mortality for October, 1890.	AGE.																		SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
I. ZYMOTICS.																							
ALCOHOLISM . . . . .	6	9											1	3		1						4	2
CROUP . . . . .	6	2				1				1	5										3	3	
CARBUNCLE . . . . .	1	2																1			1		
CHOLERA MORBUS . . . . .																							
CHOLERA INFANTUM . . . . .	35	22	10	6	10	9				35										1	14	21	
CEREBRO-SPINAL MENINGITIS . . . . .	4	1				1	1			2		1	1								4		
CONGESTIVE FEVER . . . . .																							
DIARRHŒA . . . . .	7	11	1		2	2				5						1			1		5	2	
DYSENTERY . . . . .	4	4														1		2		1	1	3	
DIPHTHERIA . . . . .	27	18			1	6	3	4	2	16	10	1									16	11	
ERYSIPELAS . . . . .		1																					
INTERMITTENT FEVER . . . . .																							
INFLUENZA . . . . .		1																					
MEASLES . . . . .		1																					
PURPURA . . . . .		1																					
PUERPERAL FEVER. . . . .	1	1												1								1	
PYŒMIA . . . . .																							
REMITTENT FEVER . . . . .																							
RHEUMATISM . . . . .	3	2															3					3	
SCARLATINA . . . . .	2					1		1	2												1	1	
SMALL POX . . . . .																							
SYPHILIS (CONGENITAL) . . . . .		3																					
SYPHILIS . . . . .	1														1							1	
SEPTICEMIA . . . . .	1	3												1							1		
TONSILLITIS. . . . .																							
TYPHOID FEVER. . . . .	29	20									3	11	8	2	3	1	1				15	14	
TYPHUS FEVER . . . . .																							
WHOOPING COUGH . . . . .		1																					
YELLOW FEVER. . . . .																							
OTHER ZYMOTIC DISEASES . . . . .	4												2	1	1						3	1	
II. CONSTITUTIONAL.																							
CANCER . . . . .	13	26												3	4	2	3	1			4	9	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	19	18	2	3	3	6	2	1	1	18		1									9	10	
MARASMUS, SCROFULA AND TABES MESENTERICA	46	27	19	9	12	2				42							1				31	12	
PHTHISIS PULMONALIS . . . . .	109	110		1	2	1			1	5	1	6	32	25	22	10	3	3	2		58	61	
OTHER CONSTITUTIONAL DISEASES . . . . .	13	15		2	1					3			1	3	1	1	4				8	5	

of October, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for October, 1891.	Total Mortality for October, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	35	21						1		1	1		1	1	5	8	9	5	4			19	16	
BRIGHT'S DISEASE . . . . .	14	10										1		2	3	5	3					7	7	
BRONCHITIS . . . . .	37	28	3	5	7	3		1		10		1	2		1	6	6	1	1			17	20	
HEART DISEASE . . . . .	77	75		1	1	1				3	5	1	5	10	7	15	17	9	5			35	42	
MENINGITIS . . . . .	19	16	3		2	2	3	1	1	12	2		1	2		1	1					8	11	
NEPHRITIS . . . . .	17	10				1				1		1	4	2	2		4	3				8	9	
PLEURISY . . . . .																								
PNEUMONIA . . . . .	45	53	3	3	4	3	1			14	2		3	4	2	4	7	7	2			19	26	
OTHER LOCAL DISEASES . . . . .	144	124	16	11	12	10	1		2	52	5	3	9	16	12	18	14	8	5	2		72	72	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	1	1							1												1		
INANITION . . . . .	7	10	5		1		1			7												4	3	
OLD AGE . . . . .	19	22															2	3	10	4		7	12	
PREMATURE BIRTH . . . . .	15	16	15							15												8	7	
PUERP'L DISEASES (not including Puerp'l Fever)	3	2											2	1									3	
OTHER DEVELOPMENTAL DISEASES . .	19	26	9	1	3					13	1						2	2	1			11	8	
V. VIOLENT.																								
ACCIDENTAL . . . . .	42	33	2	1			2	1		6	3	6	3	5	6	5	6		2			30	12	
HOMICIDAL . . . . .		1																						
SUICIDAL . . . . .	1	3												1								1		
OTHER VIOLENT CAUSES . . . . .	1												1										1	
UNKNOWN CAUSES . . . . .	2	4		1						1						1						2		
TOTAL FROM ALL CAUSES . . . . .	826	754	39	44	60	49	15	9	8	274	35	24	80	87	65	80	87	51	33	7		427	399	
TOTAL FROM ZYMOTIC DISEASES . . . . .	181																							
INCLUDING TUBERCULAR DISEASES . . .	286	103	11	6	13	19	5	4	3	61	15	5	15	14	4	6	4	5	1	1		68	63	
TOTAL FROM CONSTITUTIONAL DISEASES . .	197	196	21	15	17	10	2	1	2	68	1	7	33	31	27	13	10	5	2			110	87	
“ “ LOCAL do. . . . .	388	337	25	20	26	20	5	3	3	102	15	6	26	35	31	55	63	36	17	2		185	203	
“ “ DEVELOPMENTAL do. . . . .	64	77	30	1	4		1			38	1		2	1			4	5	11	4		31	33	
“ “ VIOLENT CAUSES . . . . .	44	37	2	1			2	1		6	3	6	4	6	6	5	6		2			31	13	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of October, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING OCTOBER, 1891.			CASES REPORTED DURING OCTOBER, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	78	....	Diphtheria . . . . .	90	....
Measles . . . . .	6	....	Measles . . . . .	62	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	67	....	Scarlatina . . . . .	30	....
Typhoid Fever . . . . .	246	1	Typhoid Fever . . . . .	159	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	1



# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU OFFICE, BOSTON.

For the month of October, 1891, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.51	55	68	E.	.00	Mean Barometer, 30.05.
2	30.33	61	84	S.W.	.00	Highest Barometer, 30.65, on the 12th.
3	30.05	70	84	S.W.	.00	Lowest Barometer, 29.61, on the 8th.
4	29.82	67	92	E.	.00	Monthly Range of Barometer, 1.04.
5	29.60	62	87	N.	.12	Mean Temperature, 52.0.
6	30.13	56	54	N.W.	.00	Highest Temperature, 83.0, on the 3rd.
7	30.19	54	79	E.	.08	Lowest Temperature, 28.0, on the 2nd.
8	29.75	58	87	N.W.	2.00	Monthly Range of Temperature, 55.0.
9	30.06	50	71	N.W.	.00	Greatest Daily Range of Temperature, 27.0 on the 3rd.
10	30.10	51	72	*Calm. W.	.00	Least Daily Range of Temperature, 7.0 on the 7th.
11	30.26	51	72	N.E.	.01	Mean Daily Range of Temperature, 14.2.
12	30.62	41	70	N.E.	.00	Mean Daily Dew-point, 42.2.
13	30.26	48	85	N.E.	.21	Mean Daily Relative Humidity, 74.8.
14	29.89	50	91	N.W.	1.61	Prevailing Direction of Wind, N.W.
15	29.91	58	91	S.W.	.02	Total Movement of Wind, 9,257 Miles.
16	30.03	51	74	W.	.00	Highest Velocity of Wind and Direction, N.W. 40 miles on the 23rd.
17	30.36	48	74	W.	.00	Number of Foggy Days,
18	30.32	48	79	E.	.00	Number of Clear Days, 10.
19	30.07	52	78	N.E.	.00	Number of Fair Days, 3.
20	29.86	54	92	N.E.	.84	Number of Cloudy Days, 13.
21	29.79	51	72	W.	.00	Total Number of Days on which Rain or Snow fell, 11.
22	29.86	50	67	W.	T	Depth of unmelted snow on ground at end of month, 0.
23	29.64	40	82	N.W.	.42	Dates of Auroras, 0.
24	29.83	41	59	W.	.00	Dates of Solar Halos, 0.
25	29.96	41	50	W.	.00	Dates of Lunar Halos, 0.
26	29.78	51	82	S.W.	.03	Mean Max. Temp., 58.6.
27	29.74	46	80	N.W.	.22	Thunder storm, 17th.
28	30.44	39	62	N.W.	.00	Dates of Frosts, light frost 10th and 16th; killing 25th.
29	30.20	38	69	N.W.	.00	
30	30.22	54	60	S.W.	.00	
31	29.95	64	48	S.W.	.00	
TOTALS .....	—	—	—	—	5.56	
MEANS .....	30.05	52	74.8	N.W.	.179	

Average monthly temperature for 21 years, 51.6.

Average monthly precipitation for 21 years, 4.19.

T indicates trace of precipitation.

\* Calm is reckoned as less than three miles per hour. The next direction prevailing is given also.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of November, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of November, 1891, . . . . . 795  
Population estimated at 459,062. . . . . Rate per 1,000 inhabitants, 20.78

Total number . . . . .	795
<b>SEX.</b>	
Males . . . . .	404
Females . . . . .	391

<b>CONDITION.</b>	
Married . . . . .	250
Single . . . . .	415
Widows . . . . .	93
Widowers . . . . .	29
Unknown . . . . .	8

<b>COLOR.</b>	
White . . . . .	777
Colored . . . . .	18

Total deaths of children	Under 1 year . . . . .	168
	Under 2 years . . . . .	210
	Under 5 years . . . . .	247

Diarrhoeal diseases	Under 1 year . . . . .	6
	Under 2 years . . . . .	9
	Under 5 years . . . . .	9
	All ages . . . . .	11

<b>NATIVITY.</b>	
United States . . . . .	513
Ireland . . . . .	164
England . . . . .	15
Scotland . . . . .	9
Germany . . . . .	15
British America . . . . .	35
Italy . . . . .	7
Other Countries . . . . .	25
Unknown . . . . .	12

<b>PARENTAGE.</b>	
United States . . . . .	187
Irish . . . . .	269
English . . . . .	20
Scotch . . . . .	12
German . . . . .	25
British American . . . . .	48
Italian . . . . .	16
Other Countries . . . . .	71
Mixed . . . . .	72
Unknown . . . . .	75

Still-births during the month . . . . . 57

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for November, 1891.	Total Mortality for November, 1890.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	9	10											1	3	3		2						7	2
CROUP . . . . .	7	5			1	1	2	2		6	1											3	4	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	4	8			2	2				4												4		
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	5	3	2		1	1				4					1							2	3	
DYSENTERY . . . . .	2	1			1					1							1						2	
DIPHTHERIA . . . . .	41	18	1		1	4	5	7	6	24	14		2			1						17	24	
ERYSIPELAS . . . . .	1	2															1					1		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .																								
MEASLES . . . . .		2																						
PURPURA . . . . .	1	1					1			1													1	
PUERPERAL FEVER. . . . .	1	3											1										1	
PTÆMIA . . . . .		2																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	4	1												1	1	1	1					1	3	
SCARLATINA . . . . .	5	1		1		1				2	2	1										3	2	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		6																						
SYPHILIS . . . . .	1	1											1										1	
SEPTICÆMIA . . . . .	2	3											1	1									2	
TONSILLITIS. . . . .																								
TYPHOID FEVER. . . . .	15	19									1	3	4	3	2		2					10	5	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	5		2		1		2			5												3	2	
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	3	2											1		2							3	1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	28	26											1	2	5	14	4	1	1			6	22	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	8	2	3	3	4		1		13	1	1	1									7	9	
MARASMUS, SCROFULA AND TABES MESENTERICA	22	19	12	3	3	1				19					1		1	1				12	10	
PHTHISIS PULMONALIS . . . . .	88	113		1		1				2	1	8	24	23	14	8	7	1				40	48	
OTHER CONSTITUTIONAL DISEASES . .	18	10	1	2		2				5		3	2	5	2	1						11	7	



# of November, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for November, 1891.	Total Mortality for November, 1890.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	20	35										1	1		2	2	6	5	1	2		10	10	
BRIGHT'S DISEASE . . . . .	14	13											1	4	3	2	3	1				7		
BRONCHITIS . . . . .	59	33	9	14	8	3				34	1		2	2	1	5	6	5	2	1		30	29	
HEART DISEASE . . . . .	63	69	2			1				3	3	1	8	3	12	14	15	2	2			30	33	
MENINGITIS . . . . .	17	17	2		4	3	2	1		12	1		1	2		1						4	13	
NEPHRITIS . . . . .	15	6										1	1	2	4	2	1	1	3			8	7	
PLEURISY . . . . .	1													1								1		
PNEUMONIA . . . . .	89	79	5	3	11	14	1	1	1	36	1		7	3	10	6	10	12	4			51	38	
OTHER LOCAL DISEASES . . . . .	121	105	7	2	10	2	5			26	1	5	12	13	16	10	21	11	5	1		64	57	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	2	1							1												1		
INANITION . . . . .	14	4	10	2	2					14												10	4	
OLD AGE . . . . .	26	18															2	11	9	4		8	18	
PREMATURE BIRTH . . . . .	12	13	12							12												9	3	
PUERP'L DISEASES (not including Puerp'l Fever)	3	5											3										3	
OTHER DEVELOPMENTAL DISEASES . .	27	13	20		1	1				22					1		2	1	1			16	11	
V. VIOLENT.																								
ACCIDENTAL . . . . .	29	37				1				1	1	3	3	9	8		3		1			22	7	
HOMICIDAL . . . . .	1	2													1							1		
SUICIDAL . . . . .	3	4											2	1								1	2	
OTHER VIOLENT CAUSES . . . . .		1																						
UNKNOWN CAUSES . . . . .	2	3														2						2		
TOTAL FROM ALL CAUSES . . . . .	795	723	88	31	49	42	18	12	7	247	29	27	82	79	87	63	88	44	25	5		404	391	
TOTAL FROM ZYMOTIC DISEASES . . . . .	106																							
INCLUDING TUBERCULAR DISEASES . . . .	134	88	5	1	7	9	10	9	6	47	13	4	11	8	9	2	7					53	53	
TOTAL FROM CONSTITUTIONAL DISEASES . .	172	176	15	9	6	8		1		39	2	12	28	30	22	23	12	3	1			76	96	
" " LOCAL do. . . . .	399	357	25	19	33	23	8	2	1	111	8	8	35	31	46	41	62	39	14	4		205	194	
" " DEVELOPMENTAL do. . . . .	83	55	43	2	3	1				49			3		1		4	12	10	4		44	39	
" " VIOLENT CAUSES . . . . .	33	44				1				1	1	3	5	10	9		3		1			24	9	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of November, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING NOVEMBER, 1891.			CASES REPORTED DURING NOVEMBER, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	108	....	Diphtheria . . . . .	75	....
Measles . . . . .	30	....	Measles . . . . .	106	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	136	....	Scarlatina . . . . .	40	1
Typhoid Fever . . . . .	95	....	Typhoid Fever . . . . .	89	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of November, 1891, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	29.86	50	50	W.	.00	Mean Barometer, 30.17.	
2	30.22	38	48	N.W.	.00	Highest Barometer, 30.81, on the 19th.	
3	30.32	35	52	N.W.	.00	Lowest Barometer, 29.48, on the 23rd.	
4	30.28	33	62	N.W.	.00	Monthly Range of Barometer, 1.33.	
5	30.14	37	69	N.	.00	Mean Temperature, 41.0.	
6	30.14	40	56	N.	.01	Highest Temperature, 66.0, on the 17th.	
7	30.06	40	57	N.	.00	Lowest Temperature, 9.0, on the 30th.	
8	30.12	42	84	N.	.00	Monthly Range of Temperature, 57.0.	
9	30.29	40	92	S.	.00	Greatest Daily Range of Temperature, 26.0 on the 17th.	
10	30.26	46	98	S.	*T	Least Daily Range of Temperature, 5.0 on the 8th.	
11	29.96	56	98	S.	.35	Mean Daily Range of Temperature, 14.0.	
12	29.99	54	71	W.	.00	Mean Daily Dew-point, 31.0.	
13	30.25	45	65	W.	.00	Mean Daily Relative Humidity, 70.0.	
14	30.44	44	63	W.	.00	Prevailing Direction of Wind, W.	
15	30.68	34	64	N.W.	.00	Total Movement of Wind, 8,733 Miles.	
16	30.41	46	82	S.	*T	Highest Velocity of Wind and Direction, 43 miles S. on the 17th.	
17	29.86	53	88	S.	.60	Number of Foggy Days,	
18	30.32	34	57	W.	.02	Number of Clear Days, 13.	
19	30.76	32	61	W.	.00	Number of Fair Days, 6.	
20	30.61	42	68	S.W.	.00	Number of Cloudy Days, 11.	
21	30.51	44	88	S.E.	.00	Total Number of Days on which .01 inch or more Rain or Snow fell, 9.	
22	30.25	48	84	S.E.	.00	Depth of Unmelted Snow on ground at end of month, 0.	
23	29.70	54	86	S.	.05	Dates of Auroras, 0.	
24	29.60	50	59	S.W.	.05	Dates of Solar Halos, 0.	
25	29.97	42	60	S.W.	.00	Dates of Lunar Halos, 0.	
26	30.04	38	70	E.	.01	Mean Max. Temp., 48.0.	
27	29.64	42	80	W.	1.24	Mean Min. Temp., 35.0.	
28	29.84	44	73	S.W.	.02	Thunder storm,	
29	30.26	19	52	N.W.	.00	Dates of Frosts,	
30	30.26	18	65	N.W.	.00		
TOTALS .....	905.04	12.42	2102	—	2.35		
MEANS .....	30.168	41.4	70.1		.078		
						COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 37	Inches.
						1872 . . . . . 40	1871 . . . . . 6.42
						1873 . . . . . 33	1872 . . . . . 3.66
						1874 . . . . . 41	1873 . . . . . 8.34
						1875 . . . . . 34	1874 . . . . . 2.85
						1876 . . . . . 40	1875 . . . . . 5.47
						1877 . . . . . 43	1876 . . . . . 11.03
						1878 . . . . . 40	1877 . . . . . 9.62
						1879 . . . . . 39	1878 . . . . . 8.94
						1880 . . . . . 37	1879 . . . . . 2.97
						1881 . . . . . 42	1880 . . . . . 2.30
						1882 . . . . . 38	1881 . . . . . 3.73
						1883 . . . . . 42	1882 . . . . . 1.20
						1884 . . . . . 41	1883 . . . . . 2.08
						1885 . . . . . 44	1884 . . . . . 3.03
						1886 . . . . . 43	1885 . . . . . 5.78
						1887 . . . . . 42	1886 . . . . . 3.59
						1888 . . . . . 45	1887 . . . . . 2.22
						1889 . . . . . 45	1888 . . . . . 4.97
						1890 . . . . . 42	1889 . . . . . 4.91
						1891 . . . . . 41	1890 . . . . . 0.97
							1891 . . . . . 2.35

Average monthly temperature for 21 years, 40.0.

Average monthly precipitation for 21 years, 4.59.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of December, 1891.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

\*Deaths during the month of December, 1891, . . . . . 1,133

Population estimated at 459,062.

Rate per 1,000 inhabitants, 29.61

Total number . . . . . 1133

### SEX.

Males . . . . . 556

Females . . . . . 577

### CONDITION.

Married . . . . . 346

Single . . . . . 538

Widows . . . . . 177

Widowers . . . . . 62

Unknown . . . . . 10

### COLOR.

White . . . . . 1109

Colored . . . . . 24

Total deaths of children { Under 1 year . . . . . 179  
Under 2 years . . . . . 230  
Under 5 years . . . . . 290

Diarrhoeal diseases { Under 1 year . . . . . 1  
Under 2 years . . . . . 1  
Under 5 years . . . . . 1  
All ages . . . . . 2

### NATIVITY.

United States . . . . . 686

Ireland . . . . . 259

England . . . . . 32

Scotland . . . . . 15

Germany . . . . . 19

British America . . . . . 75

Italy . . . . . 6

Other Countries . . . . . 22

Unknown . . . . . 19

### PARENTAGE.

United States . . . . . 280

Irish . . . . . 423

English . . . . . 27

Scotch . . . . . 21

German . . . . . 35

British American . . . . . 58

Italian . . . . . 11

Other Countries . . . . . 92

Mixed . . . . . 85

Unknown . . . . . 101

Still-births during the month . . . . . 57

\* Deduct one death (Phthisis Pulmonalis) from the month of July Mortality Statement.



# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for December, 1891.	Total Mortality for December, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	8	6																					5	3
CROUP . . . . .	13	5			2	2	3		2	9	3	1										7	6	
CARUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	1		1																		1		
CEREBRO-SPINAL MENINGITIS . . . . .	1	4															1						1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	1	6															1					1		
DYSENTERY . . . . .		2																						
DIPHTHERIA . . . . .	35	33			2	6	8	2	3	21	10	2		1				1				18	17	
ERYSIPELAS . . . . .	1	4											1									1		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	13	2	1								1	1					2	3	3	2	1	5	8	
MEASLES . . . . .		2																						
PURPURA . . . . .	2		1							1						1						2		
PUERPERAL FEVER . . . . .	2	3											2										2	
PYŒMIA . . . . .	1											1										1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .		2																						
SCARLATINA . . . . .	17	7				2	6	1	3	12	2	2	1									10	7	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		1																						
SYPHILIS . . . . .		1																						
SEPTICŒMIA . . . . .	3	1			1					1			1				1					1	2	
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	16	10						1		1		2	5	2	4	1	1					7	9	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	5			1	4					5												2	3	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		1																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	29	26													2	6	10	5	6			11	18	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	9	16	1	2		2	1	1		7	2											6	3	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	23	25	14	2	1	2				19				1		1	1		1			11	12	
PHTHISIS PULMONALIS . . . . .	4	125	1	1	1	2		1	1	7	1	19	43	44	11	14	2	2				68	75	
OTHER CONSTITUTIONAL DISEASES . . . . .	19	12			1		1	2	1	5	2		4	4	3				1			10	9	

# of December, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for December, 1891.	Total Mortality for December, 1890.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APoplexy . . . . .	37	24			1		1		1	3			1	1	2	8	6	11	5			17	20	
BRIGHT'S DISEASE . . . . .	12	12												2	3	4	2	1				6		
BRONCHITIS . . . . .	90	49	15	9	6	6		2	2	40	2	1	2	1	5	9	12	15	3			47	43	
HEART DISEASE . . . . .	80	90	2							2		4	5	8	13	19	12	14	3			35	45	
MENINGITIS . . . . .	25	14	2	2	4	6	1			15	2	3	3	1		1						13	12	
NEPHRITIS . . . . .	20	10					1			1	1	1	2	3	2		2	5	3			8	12	
PLEURISY . . . . .	2	3														1		1				1	1	
PNEUMONIA . . . . .	223	100	11	12	13	14	6	1	1	58	2	2	13	23	22	21	32	28	21	1		104	110	
OTHER LOCAL DISEASES . . . . .	142	114	7	2	5	3	4			21		4	10	20	15	21	15	20	15	1		74	68	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	3	1							1													1	
INANITION . . . . .	15	10	12	1						13		1						1				8	7	
OLD AGE . . . . .	45	33																1	16	19	8	1	19	26
PREMATURE BIRTH . . . . .	24	9	24							24												10	14	
PUERP'L DISEASES (not including Puerp'l Fever)	4	7											4										4	
OTHER DEVELOPMENTAL DISEASES . .	22	18	13	1	1					15	4					3	1	1	1			8	14	
V. VIOLENT.																								
ACCIDENTAL . . . . .	37	47	2			1		2	1	6	1	4	4	10	7	2	2	1				30	7	
HOMICIDAL . . . . .	2														2							1	1	
SUICIDAL . . . . .	7	2										1	2	2		2						7		
OTHER VIOLENT CAUSES . . . . .		1																						
UNKNOWN CAUSES . . . . .	3		1							1			1		1							1	2	
TOTAL FROM ALL CAUSES . . . . .	1133	850	108	34	37	51	32	13	15	280	29	49	103	127	99	121	98	126	74	11	1	556	577	
TOTAL FROM ZYMOTIC DISEASES . . . . .	119	100	2	2	4	15	17	4	8	52	15	9	14	3	6	7	5	5	2	1		61	58	
INCLUDING TUBERCULAR DISEASES . . .	308																							
TOTAL FROM CONSTITUTIONAL DISEASES . .	223	204	16	5	3	6	2	4	2	38	5	19	47	51	20	25	8	8	2			106	117	
" " LOCAL do. . . . .	631	416	37	25	29	29	13	3	4	140	7	15	36	59	62	84	81	95	50	2		305	326	
" " DEVELOPMENTAL do. . . . .	111	80	50	2	1					53	1	1	4		3	1	2	17	20	8	1	45	66	
" " VIOLENT CAUSES . . . . .	46	50	2			1		2	1	6	1	5	6	14	7	4	2	1				38	8	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of December, 1891, and for the corresponding month in 1890.

CASES REPORTED DURING DECEMBER, 1891.			CASES REPORTED DURING DECEMBER, 1890.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	127	....	Diphtheria . . . . .	117	....
Measles . . . . .	54	15	Measles . . . . .	237	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	261	3	Scarlatina . . . . .	112	....
Typhoid Fever . . . . .	74	....	Typhoid Fever . . . . .	54	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of December, 1891. as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.27	32	63	W.	.00	Mean Barometer, 30.112.	
2	30.12	44	46	S.W.	.00	Highest Barometer, 30.471, on the 18th, 31st.	
3	30.28	50	72	W.	.00	Lowest Barometer, 29.291, on the 16th.	
4	30.48	48	94	S.E.	.02	Monthly Range of Barometer, 1.180.	
5	30.00	48	59	S.W.	.29	Mean Temperature, 40.3.	
6	29.97	50	44	S.W.	.00	Highest Temperature, 64.0, on the 23rd.	
7	29.70	50	78	S.W.	.39	Lowest Temperature, 11.0, on the 17th.	
8	30.24	37	54	S.W.	.00	Monthly Range of Temperature, 53.0.	
9	30.15	42	46	S.W.	.00	Greatest Daily Range of Temperature, 23.0 on the 1st.	
10	30.00	51	42	S.W.	.00	Least Daily Range of Temperature, 30.0 on the 25th.	
11	30.16	46	63	W.	.00	Mean Daily Range of Temperature, 14.2.	
12	30.09	40	61	S.W.	.00	Mean Daily Dew-point, 28.2.	
13	30.01	46	50	W.	.00	Mean Daily Relative Humidity, 67.5.	
14	30.12	46	55	W.	.00	Prevailing Direction of Wind, S.W.	
15	29.59	34	92	E.	.15	Total Movement of Wind, 10,360 Miles.	
16	29.42	39	76	W.	.26	Highest Velocity of Wind and Direction, 52 miles S. on the 30th.	
17	30.00	16	57	N.W.	.00	Number of Foggy Days, 0.	
18	30.45	23	58	W.	.00	Number of Clear Days, 14.	
19	30.32	34	60	N.W.	.00	Number of Fair Days, 7.	
20	30.45	34	76	Calm.	.00	Number of Cloudy Days, 10.	
21	30.43	40	90	Calm.	.00	Total Number of Days on which .01 inch or more Rain or Snow fell, 12.	
22	30.29	44	92	S.W.	.00	Depth of unmelted Snow on ground at end of month, 0.	
23	30.01	58	88	S.W.	.42	Dates of Auroras, 0.	
24	30.12	44	88	N.E.	.42	Dates of Solar Halos, 0.	
25	30.17	40	94	N.	.16	Dates of Lunar Halos, 9th, 12th, 20th.	
26	29.76	48	92	S.	.22	Mean Max. Temp., 47.50.	Mean Min. Temp., 33.40.
27	29.94	38	56	W.	.03	Thunder storm, 0.	
28	30.32	32	56	W.	.00	Dates of Frosts,	
29	30.20	34	79	S.E.	.01	COMPARATIVE TEMPERATURE.	
30	29.73	38	71	N.W.	1.21	COMPARATIVE PRECIPITATIONS.	
31	30.44	24	40	N.W.	.00	Inches.	
TOTALS.....	933.23	12.48	2092	—	3.58	1871 . . . . . 28	1871 . . . . . 3.38
MEANS .....	30.10	40.3	67.5		.116	1872 . . . . . 24	1872 . . . . . 3.29
						1873 . . . . . 31	1873 . . . . . 5.64
						1874 . . . . . 37	1874 . . . . . 2.14
						1875 . . . . . 29	1875 . . . . . 0.75
						1876 . . . . . 22	1876 . . . . . 3.71
						1877 . . . . . 35	1877 . . . . . 1.32
						1878 . . . . . 30	1878 . . . . . 6.76
						1879 . . . . . 32	1879 . . . . . 5.56
						1880 . . . . . 26	1880 . . . . . 3.42
						1881 . . . . . 38	1881 . . . . . 3.80
						1882 . . . . . 30	1882 . . . . . 2.65
						1883 . . . . . 29	1883 . . . . . 3.71
						1884 . . . . . 23	1884 . . . . . 4.46
						1885 . . . . . 29	1885 . . . . . 2.09
						1886 . . . . . 32	1886 . . . . . 3.66
						1887 . . . . . 36	1887 . . . . . 2.71
						1888 . . . . . 38	1888 . . . . . 4.38
						1889 . . . . . 26	1889 . . . . . 1.83
						1890 . . . . . 40	1890 . . . . . 3.72
						1891 . . . . . 40	1891 . . . . . 3.58

Average mean temperature for 21 years, 31.0.

Average monthly precipitation for 21 years, 3.45.

\*T indicates trace of precipitation.



# SUMMARY OF DEATHS IN BOSTON.

With Principal Causes, for the year 1891. Compared with those of 1890.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

	1891.	1890.		1891.	1890.
Total No. of deaths from all causes . .	10,571	10,181	Influenza . . . . .	31	24
Population (estimated) . . . . .	459,062	*448,477	Intermittent Fever . . . . .	2	—
Annual death rate per 1000 inhabitants	23.02	22.70	Measles . . . . .	21	19
Total No. from Zymotic diseases . .	1,615	1,677	Purpura . . . . .	6	6
Percentage of deaths from Zymotic dis-			Puerperal Fever . . . . .	18	27
eases to total mortality . . . . .	15.27	16.47	Pyæmia . . . . .	15	13
Total No. of Still-births . . . . .	614	627	Remittent Fever . . . . .	1	—
Total deaths of children under 1 year .	2,552	2,271	Rheumatism . . . . .	23	20
“ “ “ “ 2 years . . . . .	3,135	2,823	Scarlatina . . . . .	64	42
“ “ “ “ 5 years . . . . .	3,608	3,349	Small Pox . . . . .	—	—
Percentage of deaths under 5 years to			Syphilis (congenital) . . . . .	21	40
total mortality . . . . .	34.13	32.89	Syphilis . . . . .	5	3
Total No. of deaths from diarrhœal dis-			Septicæmia . . . . .	29	18
eases, under 5 years . . . . .	667	590	Tonsillitis . . . . .	3	1
Total No. of deaths from diarrhœal dis-			Typhoid Fever . . . . .	154	155
eases, all ages . . . . .	755	665	Typhus Fever . . . . .	—	—
Percentage of deaths from diarrhœal dis-			Whooping Cough . . . . .	39	39
eases to total mortality . . . . .	7.14	6.53	Yellow Fever . . . . .	—	—
Alcoholism . . . . .	65	76	Other Zymotic Diseases . . . . .	16	8
Croup . . . . .	53	61	Cancer . . . . .	317	326
Carbuncle . . . . .	2	6	Phthisis Pulmonalis . . . . .	1,352	1,495
Cholera Morbus . . . . .	20	23	Bright's Disease . . . . .	148	134
Cholera Infantum . . . . .	597	498	Bronchitis . . . . .	551	453
Cerebro Spinal Meningitis . . . . .	21	17	Heart Disease . . . . .	764	783
Diarrhœa . . . . .	90	114	Pneumonia . . . . .	1,149	1,092
Dysentery . . . . .	48	30	Old Age . . . . .	289	243
Diphtheria . . . . .	232	401	Violent Deaths . . . . .	472	450
Erysipelas . . . . .	39	36			

\*Population by National Census.



HEALTH DEPARTMENT OF THE CITY OF BOSTON.

Statement of Mortality for the month of January, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of January, 1892,	1,190
Population estimated at 459,062.	Rate per 1,000 inhabitants, 31.10

Total number	1190	NATIVITY.	
SEX.		United States	689
Males	567	Ireland	317
Females	623	England	33
CONDITION.		Scotland	18
Married	386	Germany	22
Single	538	British America	67
Widows	206	Italy	7
Widowers	54	Other Countries	27
Unknown	6	Unknown	10
COLOR.		PARENTAGE.	
White	1160	United States	298
Colored	30	Irish	468
Total deaths of children		English	30
		Scotch	23
		German	26
Under 1 year		British American	57
Under 2 years		Italian	16
Under 5 years		Other Countries	93
Diarrhœal diseases		Mixed	78
		Unknown	101
		Still-births during the month	
		44	
Under 1 year			
Under 2 years			
Under 5 years			
All ages			



# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for January, 1902.	Total Mortality for January, 1901.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	6											1	3	1	1	1						6	1
CROUP . . . . .	7	6	1				2	3		6	1											5	2	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1					1				1												1		
CEREBRO-SPINAL MENINGITIS . . . . .	2	5									1		1									1	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2	7	1							1									1				2	
DYSENTERY . . . . .		1																						
DIPHTHERIA . . . . .	28	16			2	3	6	5	3	19	6		1	1				1				15	13	
ERYSIPELAS . . . . .	2	5													1			1				1	1	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	63	1	1	1	4	1				7		1		3	5	7	13	17	10			28	35	
MEASLES . . . . .	1	6					1			1												1		
PURPURA . . . . .																								
PUERPERAL FEVER. . . . .	1	2												1									1	
PYEMIA . . . . .		1																						
REMITTENT FEVER . . . . .		1																						
RHEUMATISM . . . . .	3	6				1				1					1			1				1	2	
SCARLATINA . . . . .	29	6			1	7	3	7	2	20	8	1										13	16	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		2																						
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	1	1													1							1		
TONSILLITIS . . . . .	1			1						1												1		
TYPHOID FEVER. . . . .	2	8										2										1	1	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	9	4	1	1	1	5				1	9											3	6	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	19	29												3	3	5	3	4	1			7	12	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	16	2	3	3	2	1			11	4				1							7	9	
MARASMUS, SCROFULA AND TABES MESENTERICA	24	25	10	4	2			1		17		1			1	1	1	1	2			9	15	
PHthisis PULMONALIS . . . . .	150	123	1	1		4				6		12	39	38	30	10	12	3				69	81	
OTHER CONSTITUTIONAL DISEASES . . . . .	17	16	1					1	1	3		3	2	3	4	1			1			5	12	

of January, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for January, 1892.	Total Mortality for January, 1891.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
Apoplexy . . . . .	34	23											2		2	9	7	6	7	1		16	18
Bright's Disease . . . . .	13	12										2		1	3		4	2	1			7	6
Bronchitis . . . . .	109	48	8	7	10	16	1			42			3	6	4	9	13	17	14	1		44	65
Heart Disease . . . . .	84	76	4						2	6	1	4	9	6	13	15	13	15	2			33	51
Meningitis . . . . .	38	18	4	3	6	6		4	2	25	1	1		6	2	1	2					26	12
Nephritis . . . . .	24	14		1	1					2	2		4	2	7	5	1	1				15	9
Pleurisy . . . . .	6	3									1			1	1	3						5	1
Pneumonia . . . . .	240	139	2	6	13	14	1	2		38	6		22	29	32	26	41	31	14	1		120	120
Other Local Diseases . . . . .	135	141	11	3	7		2	4		27	3	4	10	11	18	12	16	24	10			64	71
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	1	1	1							1													1
Inanition . . . . .	7	21	7							7												6	1
Old Age . . . . .	42	24																19	14	9		12	30
Premature Birth . . . . .	13	12	13							13												8	5
Puerp'l Diseases (not including Puerp'l Fever)	3	2											1	2									3
Other Developmental Diseases . .	21	31	12	1						13					2		2	2	2			12	9
V. VIOLENT.																							
Accidental . . . . .	26	28	1	1	1	1	1	1	1	7	1		1	8	1	4	1	2	1			18	8
Homicidal . . . . .	2	1	1							1			1									2	
Suicidal . . . . .	4	3													1	3						3	1
Other Violent Causes . . . . .	2	2											1			1							2
Unknown Causes . . . . .	1	2													1							1	
TOTAL FROM ALL CAUSES . . . . .	1190	894	82	33	51	61	18	28	12	285	35	29	100	124	135	113	130	147	80	12		567	623
TOTAL FROM ZYMOTIC DISEASES . . . . .	159																						
INCLUDING TUBERCULAR DISEASES . . . .	376	84	4	3	8	18	12	15	6	66	16	2	5	8	9	8	14	20	11			78	81
TOTAL FROM CONSTITUTIONAL DISEASES . .	226	209	14	8	5	6	1	2	1	37	4	16	41	44	39	17	16	8	4			97	129
“ “ LOCAL do. . . . .	683	474	29	20	37	36	4	10	4	140	14	11	50	62	82	80	97	96	48	3		330	353
“ “ DEVELOPMENTAL do. . . . .	87	91	33	1						34			1	2	2		2	21	16	9		38	49
“ “ VIOLENT CAUSES . . . . .	34	34	2	1	1	1	1	1	1	8	1		3	8	2	8	1	2	1			23	11

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of January, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING JANUARY, 1892.			CASES REPORTED DURING JANUARY, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	102	....	Diphtheria . . . . .	80	....
Measles . . . . .	48	....	Measles . . . . .	441	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	290	....	Scarlatina . . . . .	100	....
Typhoid Fever . . . . .	25	....	Typhoid Fever . . . . .	29	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of January, 1892. as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.34	33	41	N.W.	.00	Mean Barometer, 30.02.
2	29.72	44	88	S.E.	.73	Highest Barometer, 30.70, on the 17th.
3	29.65	40	69	S.W.	.53	Lowest Barometer, 29.29, on the 6th.
4	29.54	26	65	W.	.00	Monthly Range of Barometer, 1.41.
5	29.73	26	66	W.	.60	Mean Temperature, 28.3.
6	29.53	28	87	S.E.	.50	Highest Temperature, 63.0, on the 14th.
7	29.65	30	69	W.	.01	Lowest Temperature, 1.0, on the 27th.
8	30.11	28	64	S.W.	.00	Monthly Range of Temperature, 62.0.
9	30.32	30	70	S.W.	.05	Greatest Daily Range of Temperature, 29.0 on the 19th.
10	30.61	22	58	N.	.00	Least Daily Range of Temperature, 6.0 on the 29th.
11	30.59	23	90	N.	.05	Mean Daily Range of Temperature, 15.1.
12	30.41	30	100	N.	.07	Mean Daily Dew-point, 20.4.
13	30.14	35	98	Calm.	1.07	Mean Daily Relative Humidity, 73.0.
14	29.99	50	96	S.W.	.06	Prevailing Direction of Wind, N.W., 22d.
15	30.15	30	93	N.W.	.48	Total Movement of Wind, 9,923 Miles.
16	30.47	20	72	N.W.	T	Highest Velocity of Wind and Direction, 40 miles N.E. on the 6th.
17	30.64	20	74	N.W.	.00	Number of Foggy Days, 0.
18	30.29	38	83	S.	.04	Number of Clear Days, 10.
19	29.83	38	90	N.W.	.91	Number of Fair Days, 9.
20	30.23	12	72	N.W.	.09	Number of Cloudy Days, 12.
21	30.20	18	68	W.	.00	Total Number of Days on which Rain or Snow fell, 16.
22	30.21	25	72	S.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	29.74	38	70	W.	.00	Dates of Auroras, 5th, 8 p.m. to mid-night.
24	29.76	22	71	N.W.	.00	Dates of Solar Halos, 0.
25	29.45	36	74	S.W.	.01	Dates of Lunar Halos, 0.
26	29.50	16	63	W.	.00	Mean Max. Temp., 35.8.
27	29.56	10	58	N.W.	.01	Mean Min. Temp., 20.8.
28	29.93	21	59	W.	.00	Dates of Frosts, 0.
29	29.86	32	75	E.	.00	Thunder storm, 0.
30	29.98	28	73	N.	.01	
31	29.93	26	61	N.	.00	
TOTALS .....	930.45	876	2279	—	4.62	
MEANS .....	30.01	28.3	73.5		.149	
						COMPARATIVE TEMPERATURE.
						1871 . . . . . 26
						1872 . . . . . 27
						1873 . . . . . 26
						1874 . . . . . 31
						1875 . . . . . 20
						1876 . . . . . 30
						1877 . . . . . 23
						1878 . . . . . 28
						1879 . . . . . 24
						1880 . . . . . 35
						1881 . . . . . 22
						1882 . . . . . 26
						1883 . . . . . 25
						1884 . . . . . 24
						1885 . . . . . 27
						1886 . . . . . 26
						1887 . . . . . 26
						1888 . . . . . 20
						1889 . . . . . 36
						1890 . . . . . 32
						1891 . . . . . 31
						1892 . . . . . 28
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 0.92
						1872 . . . . . 2.11
						1873 . . . . . 5.76
						1874 . . . . . 4.32
						1875 . . . . . 3.68
						1876 . . . . . 1.87
						1877 . . . . . 3.33
						1878 . . . . . 7.60
						1879 . . . . . 2.79
						1880 . . . . . 3.72
						1881 . . . . . 7.21
						1882 . . . . . 3.68
						1883 . . . . . 3.59
						1884 . . . . . 6.27
						1885 . . . . . 5.33
						1886 . . . . . 7.08
						1887 . . . . . 4.86
						1888 . . . . . 2.20
						1889 . . . . . 4.11
						1890 . . . . . 2.00
						1891 . . . . . 4.39
						1892 . . . . . 4.62

Average mean temperature for 22 years, 27.0.

Average mean precipitation for 22 years, 4.16 inches.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of February, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of February, 1892, . . . . . 813

Population estimated at 459,062.

Rate per 1,000 inhabitants, 21.25

Total number . . . . . 813

### SEX.

Males . . . . . 433

Females . . . . . 380

### CONDITION.

Married . . . . . 286

Single . . . . . 409

Widows . . . . . 84

Widowers . . . . . 29

Unknown . . . . . 5

### COLOR.

White . . . . . 794

Colored . . . . . 19

Total deaths of children { Under 1 year . . . . . 124  
Under 2 years . . . . . 165  
Under 5 years . . . . . 230

Diarrhœal diseases { Under 1 year . . . . . 1  
Under 2 years . . . . . 2  
Under 5 years . . . . . 2  
All ages . . . . . 2

### NATIVITY.

United States . . . . . 508

Ireland . . . . . 183

England . . . . . 21

Scotland . . . . . 4

Germany . . . . . 12

British America . . . . . 54

Italy . . . . . 3

Other Countries . . . . . 23

Unknown . . . . . 5

### PARENTAGE.

United States . . . . . 202

Irish . . . . . 289

English . . . . . 22

Scotch . . . . . 8

German . . . . . 26

British American . . . . . 35

Italian . . . . . 19

Other Countries . . . . . 78

Mixed . . . . . 61

Unknown . . . . . 73

Still-births during the month . . . . . 48

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for February, 1892.	Total Mortality for February, 1891.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	4	3										1	2		1							3	1	
CROUP . . . . .	6	3			2	2	2	6														2	4	
CARCUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	2	1					1															1	
CEREBRO-SPINAL MENINGITIS . . . . .	3	2	1					1	1		1											2	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .		3																						
DYSENTERY . . . . .	1	1			1			1														1		
DIPHTHERIA . . . . .	31	18		1	6	7	5	4	23	7		1										15	16	
ERYSIPELAS . . . . .	3	6			1			1						1	1							2	1	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	16	1			1			1			3		1	2	3	1	4	1				6	10	
MEASLES . . . . .		2																						
PURPURA . . . . .	1		1					1														1		
PURPERAL FEVER. . . . .	3	2									1	2											3	
PYÆMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	4	1			1			1				1			1		1					2	2	
SCARLATINA . . . . .	20	8		2	3	1	7	2	15	4	1											11	9	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		1																						
SYPHILIS . . . . .	1													1									1	
SEPTICÆMIA . . . . .	3	1										1		1		1						1	2	
TONSILLITIS . . . . .		1																						
TYPHOID FEVER. . . . .	5	4										4	1									2	3	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	8	1	1	3	3		1		8													2	6	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		2																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	17	22										1	2	3	5	3	3					7	10	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	13	13	1	1	2	2	4	2	12			1										6	7	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	13	24	4	3	3	1		1	12	1												6	7	
PHTHISIS PULMONALIS . . . . .	93	88										6	29	24	19	12	2	1				41	52	
OTHER CONSTITUTIONAL DISEASES . . . . .	14	13		1	2			1	4			5	1	3	1							7	7	

of February, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for February, 1892.	Total Mortality for February, 1891.																			Males.	Females.	
			Under 3 mos. 3 mos. and under 6 mos. 6 mos. and under 1 year. 1 year and under 2 yrs. 2 years and under 3 yrs. 3 years and under 4 yrs. 4 years and under 5 yrs. Total under 5 years 5 years and under 10 yrs. 10 years and under 20 yrs. 20 years and under 30 yrs. 30 years and under 40 yrs. 40 years and under 50 yrs. 50 years and under 60 yrs. 60 years and under 70 yrs. 70 years and under 80 yrs. 80 years and under 90 yrs. 90 years and under 100 yrs. 100 years and over.																				
III. LOCAL.																							
Apoplexy . . . . .	30	18				1					1			2		5	4	6	11	1		21	9
Bright's Disease . . . . .	7	10													1	3	1	2			5	2	
Bronchitis . . . . .	66	46	11	6	5	8	3			33		1	4	3	3	6	7	8	1		35	31	
Heart Disease . . . . .	75	51	1					1	1	3	4	6	7	3	9	13	15	14	1		42	33	
Meningitis . . . . .	23	23	3	3	5			7		18	1	1	2					1			17	6	
Nephritis . . . . .	17	10			1				1	2			1	2	4	3	1	4			9	8	
Pleurisy . . . . .	3	1											1	1			1				1	2	
Pneumonia . . . . .	120	121	3	4	7	8	1	5	1	29	2	2	8	21	8	15	12	14	9		74	46	
Other Local Diseases . . . . .	118	130	8	8	3	3	2		3	27	5	3	13	9	13	15	19	9	4	1	54	64	
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	1	3	1							1												1	
Inanition . . . . .	5	15	3	1		1				5											2	3	
Old Age . . . . .	18	14															1	6	9	2	6	12	
Premature Birth . . . . .	17	20	17							17											12	5	
Puerp'l Diseases (not including Puerp'l Fever)	1	2												1								1	
Other Developmental Diseases . .	13	17	4			1				5		1			6		1				9	4	
V. VIOLENT.																							
Accidental . . . . .	28	22		1			1			2	1	2	6	5	5	3	2	1	1		23	5	
Homicidal . . . . .	1															1					1		
Suicidal . . . . .	8	5											4	1	1	1	1				5	3	
Other Violent Causes . . . . .	1	1											1									1	
Unknown Causes . . . . .	1	3											1									1	
TOTAL FROM ALL CAUSES . . . . .	813	735	53	32	34	41	22	30	13	230	26	23	98	80	86	84	78	73	31	4	433	330	
TOTAL FROM ZYMOTIC DISEASES . . . . .	110																						
INCLUDING TUBERCULAR DISEASES . . . .	251	63	2	6	6	15	11	14	6	59	12	1	12	6	4	4	5	1	5	1	50	60	
TOTAL FROM CONSTITUTIONAL DISEASES . . .	150	160	5	4	6	5	4	3	1	23	1	6	38	27	25	18	5	4			67	83	
“ “ LOCAL do. . . . .	459	410	26	21	22	19	6	13	6	113	12	13	38	40	45	57	63	61	16	1	238	201	
“ “ DEVELOPMENTAL do. . . . .	5	71	25	1		2				28		1		1	6		2	6	9	2	29	26	
“ “ VIOLENT CAUSES . . . . .	38	28		1		1				2	1	2	11	6	6	5	3	1	1		29	9	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of February, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING FEBRUARY, 1892.			CASES REPORTED DURING FEBRUARY, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	108	....	Diphtheria . . . . .	71	....
Measles . . . . .	92	1	Measles . . . . .	478	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	291	....	Scarlatina . . . . .	95	....
Typhoid Fever . . . . .	23	....	Typhoid Fever . . . . .	23	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON  
For the month of February, 1892, as reported by J. W. SMITH, Observer and Local  
Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	29.98	33	62	W.	.00	Mean Barometer, 30.14.	
2	30.00	36	82	E.	.20	Highest Barometer, 30.75, on the 27th.	
3	29.80	33	95	N.	.93	Lowest Barometer, 29.03, on the 11th.	
4	29.96	31	72	N.W.	.00	Monthly Range of Barometer, 1.72.	
5	30.00	22	79	N.W.	.00	Mean Temperature, 28.3.	
6	30.28	18	64	N.W.	.00	Highest Temperature, 46.0, on the 15th.	
7	30.10	25	79	W.	.02	Lowest Temperature, 5.0, on the 19th.	
8	29.71	31	100	N.E.	.24	Monthly Range of Temperature, 41.0.	
9	29.87	30	80	Calm.	T	Greatest Daily Range of Temperature, 31.0 on the 18th.	
10	30.01	28	62	W.	.00	Least Daily Range of Temperature, 2.0 on the 21st.	
11	29.31	30	100	E.	.59	Mean Daily Range of Temperature, 10.8.	
12	29.22	26	75	W.	.01	Mean Daily Dew-point, 21.4.	
13	29.60	14	66	W.	.00	Mean Daily Relative Humidity, 78.5.	
14	30.00	20	76	W.	T	Prevailing Direction of Wind, N.W., 24th.	
15	29.99	38	71	W.	.08	Total Movement of Wind, 8,000 Miles.	
16	30.50	20	56	N.W.	.00	Highest Velocity of Wind and Direction, 32 miles W. on the 13th.	
17	30.47	12	60	N.W.	.00	Number of Foggy Days, 0.	
18	30.16	26	48	W.	.00	Number of Clear Days, 10.	
19	30.32	33	57	N.W.	.00	Number of Fair Days, 5.	
20	30.42	36	94	N.E.	T	Number of Cloudy Days, 14.	
21	30.50	34	95	N.	.01	Total Number of Days on which Rain or Snow fell, 10.	
22	30.54	37	91	N.	T	Depth of unmelted Snow on ground at end of month, trace.	
23	30.54	34	90	N.E.	.06	Dates of Auroras, 13th.	
24	30.48	36	83	N.E.	.01	Dates of Solar Halos, 19th.	
25	30.28	36	98	E.	T	Dates of Lunar Halos, 10th.	
26	30.28	36	96	Calm.	.00	Mean Max. Temp., 33.8.	
27	30.70	21	73	N.E.	T	Mean Min. Temp., 23.0.	
28	30.64	17	64	N.	T	Thunder storm, 0.	
29	30.32	27	89	N.E.	T	Dates of Frosts, 0.	
						COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 29	1871 . . . . . Inches.
						1872 . . . . . 28	1872 . . . . . 2.63
						1873 . . . . . 27	1873 . . . . . 2.31
						1874 . . . . . 28	1874 . . . . . 3.21
						1875 . . . . . 22	1875 . . . . . 3.41
						1876 . . . . . 27	1876 . . . . . 3.74
						1877 . . . . . 32	1877 . . . . . 4.54
						1878 . . . . . 29	1878 . . . . . 0.45
						1879 . . . . . 24	1879 . . . . . 4.40
						1880 . . . . . 32	1880 . . . . . 4.35
						1881 . . . . . 28	1881 . . . . . 4.11
						1882 . . . . . 30	1882 . . . . . 4.89
						1883 . . . . . 29	1883 . . . . . 4.77
						1884 . . . . . 31	1884 . . . . . 2.74
						1885 . . . . . 20	1885 . . . . . 5.74
						1886 . . . . . 27	1886 . . . . . 3.00
						1887 . . . . . 29	1887 . . . . . 7.04
						1888 . . . . . 28	1888 . . . . . 3.69
						1889 . . . . . 26	1889 . . . . . 2.36
						1890 . . . . . 33	1890 . . . . . 1.54
						1891 . . . . . 32	1891 . . . . . 2.29
						1892 . . . . . 28	1892 . . . . . 3.66
							1892 . . . . . 2.15
TOTALS .....	873.98	822	2277	—	2.15		
MEANS . . . . .	30.14	28.3	78.5		.074		

Average monthly temperature for 22 years, 28.0.

Average monthly precipitation for 22 years, 3.50.

\*T indicates trace of precipitation.







# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of March, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of March, 1892, . . . . . 995

Population estimated at 459,062.

Rate per 1,000 inhabitants, 26.00

Total number . . . . . 995

### SEX.

Males . . . . . 495

Females . . . . . 500

### CONDITION.

Married . . . . . 291

Single . . . . . 536

Widows . . . . . 127

Widowers . . . . . 38

Unknown . . . . . 3

### COLOR.

White . . . . . 978

Colored . . . . . 17

### NATIVITY.

United States . . . . . 655

Ireland . . . . . 190

England . . . . . 24

Scotland . . . . . 8

Germany . . . . . 21

British America . . . . . 58

Italy . . . . . 8

Other Countries . . . . . 17

Unknown . . . . . 14

### PARENTAGE.

United States . . . . . 257

Irish . . . . . 336

English . . . . . 27

Scotch . . . . . 12

German . . . . . 36

British American . . . . . 62

Italian . . . . . 22

Other Countries . . . . . 96

Mixed . . . . . 68

Unknown . . . . . 79

Still-births during the month . . . . . 51

Total deaths of children	Under 1 year . . . . .	165
	Under 2 years . . . . .	235
	Under 5 years . . . . .	308

Diarrhœal diseases	Under 1 year . . . . .	2
	Under 2 years . . . . .	2
	Under 5 years . . . . .	3
	All ages . . . . .	7

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	AGE.																			SEX.			
	Total Mortality for March, 1892.	Total Mortality for March, 1891.	Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
I. ZYMOTICS.																							
ALCOHOLISM . . . . .	9	3												4	4	1						7	2
CROUP . . . . .	5	5				1	1	1		3	2											3	2
CARBUNCLE . . . . .	1			1						1													1
CHOLERA MORBUS . . . . .																							
CHOLERA INFANTUM . . . . .		1																					
CEREBRO-SPINAL MENINGITIS . . . . .		3																					
CONGESTIVE FEVER . . . . .																							
DIARRHŒA . . . . .	6	3		1	1		1			3							3					3	3
DYSENTERY . . . . .	1	4															1						1
DIPHTHERIA . . . . .	35	13		1		9	10	5	2	27	3	2	2					1				18	17
ERYSIPELAS . . . . .	7	4	1	1	1					3			1		1		2					5	2
INTERMITTENT FEVER . . . . .																							
INFLUENZA . . . . .	7	1					1			1		1	1				1	2	1			3	4
MEASLES . . . . .	2	4		1		1				2												2	
PURPURA . . . . .																							
PUERPERAL FEVER. . . . .	4												3	1									4
PYEMIA . . . . .	1	5														1							1
REMITTENT FEVER . . . . .																							
RHEUMATISM . . . . .	5	3							1	1	1	1					2					1	4
SCARLATINA . . . . .	28	7	1			5	1	5	4	16	10	1	1									14	14
SMALL POX . . . . .																							
SYPHILIS (CONGENITAL) . . . . .	2	4	2							2												2	
SYPHILIS . . . . .																							
SEPTICEMIA . . . . .	4	2										1	1	1	1							1	3
TONSILLITIS . . . . .	1	1											1									1	
TYPHOID FEVER. . . . .	7	11											4	1		2						3	4
TYPHUS FEVER . . . . .																							
WHOOPING COUGH . . . . .	6	2	1		1	1	1	1		5	1											4	2
YELLOW FEVER . . . . .																							
OTHER ZYMOTIC DISEASES . . . . .	2	1				1				1						1						1	1
II. CONSTITUTIONAL.																							
CANCER . . . . .	20	25												2	4	3	8	3				6	14
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	26	10	1	2	7	7	3	1	1	22		1	1	1		1						13	13
MARASMUS, SCROFULA AND TABES MESENTERICA	24	21	10	2	5	2		1		20	2					1	1					12	12
PHTHISIS PULMONALIS . . . . .	114	98			1	1				2		11	43	25	17	10	3	3				55	59
OTHER CONSTITUTIONAL DISEASES . . . . .	22	21		1	1	1				3		3	6	1	2	1	3	3				8	14



of March, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for		AGE.																	SEX.				
	March, 1892.	March, 1891.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	37	30											1	4	2	7	8	8	6	1			15	22
Bright's Disease . . . . .	16	9							1	1		1			3	7	1	3					8	6
Bronchitis . . . . .	55	46	4	10	6	7	2	4		33		2	2	1	4	3	4	3	3				23	32
Heart Disease . . . . .	112	70	1							1	4	5	9	12	17	13	24	21	6				49	63
Meningitis . . . . .	34	17	2		6	8	2	3	4	25	3	2	1	1		1	1						16	18
Nephritis . . . . .	26	13			1					1	2		3	3	2	6	5	2	2				13	13
Pleurisy . . . . .	5	2							1	1			1		1	1		1					3	2
Pneumonia . . . . .	119	104	5	7	4	17	5	2	2	42	2	1	12	10	12	15	12	7	6				63	56
Other Local Diseases . . . . .	125	149	10	4	5	9	4		1	33	2	6	13	13	14	14	16	9	3	2			63	62
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	3	1	3							3													2	1
Inanition . . . . .	12	14	8	1	2		1			12													9	3
Old Age . . . . .	27	26															2	10	12	3			11	16
Premature Birth . . . . .	17	13	16	1						17													11	6
Puerp'l Diseases (not including Puerp'l Fever)	2	3											1	1										2
Other Developmental Diseases . . . . .	29	29	21	2	2					25					2		1		1				17	12
V. VIOLENT.																								
Accidental . . . . .	27	26							1	1	1	4	4	4	6	2	1	2	1	1			22	5
Homicidal . . . . .	2											1			1								2	
Suicidal . . . . .	5	4											1	2		1	1						5	
Other Violent Causes . . . . .	1														1									1
Unknown Causes . . . . .	2	5			1					1			1										1	1
TOTAL FROM ALL CAUSES . . . . .	995	813	86	35	44	70	32	23	18	308	33	43	113	87	96	80	100	78	41	7			495	500
TOTAL FROM ZYMOTIC DISEASES . . . . .	133																							
INCLUDING TUBERCULAR DISEASES . . . . .	323	77	5	5	3	18	15	12	7	65	17	6	14	7	8	3	9	3	1				68	65
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	206	175	11	5	14	11	3	2	1	47	2	15	50	29	23	16	15	9					94	112
" " LOCAL do. . . . .	529	440	22	21	22	41	13	9	9	137	13	17	42	44	55	67	71	54	26	3			253	276
" " DEVELOPMENTAL do. . . . .	90	86	48	4	4		1			57			1	1	2		3	10	13	3			50	40
" " VIOLENT CAUSES . . . . .	35	30							1	1	1	5	5	6	8	3	2	2	1	1			29	6

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of March, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING MARCH, 1892.			CASES REPORTED DURING MARCH, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	114	....	Diphtheria . . . . .	59	....
Measles . . . . .	86	1	Measles . . . . .	447	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	447	....	Scarlatina . . . . .	108	....
Typhoid Fever . . . . .	24	....	Typhoid Fever . . . . .	32	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of March, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.14	32	90	N.E.	.07	Mean Barometer, 29.93.	
2	30.25	17	89	N.	.40	Highest Barometer, 30.479, on the 31st.	
3	29.91	21	84	N.	.48	Lowest Barometer, 29.237, on the 19th.	
4	29.72	33	67	N.W.	.01	Monthly Range of Barometer, 1.242 inches.	
5	29.63	34	54	N.W.	.60	Mean Temperature, 32.9.	
6	29.65	36	54	W.	.00	Highest Temperature, 56.0, on the 10th.	
7	29.81	41	58	W.	.00	Lowest Temperature, 14.0, on the 14th.	
8	29.59	37	88	N.E.	.55	Monthly Range of Temperature, 42.0.	
9	29.38	44	83	W.	.06	Greatest Daily Range of Temperature, 24.0 on the 22d.	
10	29.99	46	73	W.	.06	Least Daily Range of Temperature, 4.0 on the 2d.	
11	29.44	30	59	S.W.	.29	Mean Daily Range of Temperature, 13.6.	
12	29.70	28	58	W.	T	Mean Daily Dew-point, 19.4.	
13	29.89	26	46	W.	.00	Mean Daily Relative Humidity, 62.2.	
14	29.98	20	45	W.	.00	Prevailing Direction of Wind, W.	
15	30.21	24	56	W.	.00	Total Movement of Wind, 11,893 Miles.	
16	30.33	24	56	N.W.	.00	Highest Velocity of Wind and Direction, 48 miles W. on the 19th.	
17	30.28	26	50	N.W.	.00	Number of Foggy Days, 0.	
18	29.77	29	100	N.E.	1.35	Number of Clear Days, 17.	
19	29.44	31	68	W.	.02	Number of Fair Days, 7.	
20	29.89	30	56	W.	.00	Number of Cloudy Days, 7.	
21	30.31	26	40	W.	.00	Total Number of Days on which Rain or Snow fell, 11.	
22	30.42	31	49	W.	.00	Depth of unmelted Snow on ground at end of month, 000.	
23	29.98	40	92	S.	.62	Dates of Auroras, 6th, 7.50 P.M. to 8.15 P.M.	
24	30.06	40	50	W.	.00	Dates of Solar Halos, 16th, 17th, 22d.	
25	30.03	42	58	W.	.00	Dates of Lunar Halos, 0.	
26	29.90	40	60	Calm.	.00	Mean Max. Temp., 39.7.	
27	29.63	36	68	N.E.	.00	Mean Min. Temp., 26.1.	
28	29.78	41	38	N.W.	.00	Thunder storm, 0.	
29	30.06	42	34	N.W.	.00	COMPARATIVE TEMPERATURE.	
30	30.26	38	48	N.W.	.00	COMPARATIVE PRECIPITATIONS.	
31	30.44	37	56	E.	.00		
TOTALS.....	927.86	1020	1927	—	3.91		
MEANS.....	29.93	32.9	62.2		.126		
						Inches.	
						1871 . . . . . 4.55	
						1872 . . . . . 4.05	
						1873 . . . . . 3.76	
						1874 . . . . . 1.60	
						1875 . . . . . 5.04	
						1876 . . . . . 7.19	
						1877 . . . . . 9.79	
						1878 . . . . . 5.91	
						1879 . . . . . 3.90	
						1880 . . . . . 3.25	
						1881 . . . . . 9.80	
						1882 . . . . . 3.35	
						1883 . . . . . 2.33	
						1884 . . . . . 4.86	
						1885 . . . . . 1.15	
						1886 . . . . . 3.20	
						1887 . . . . . 3.86	
						1888 . . . . . 3.32	
						1889 . . . . . 1.19	
						1890 . . . . . 5.88	
						1891 . . . . . 3.04	
						1892 . . . . . 3.91	

Average mean temperature for 22 years, 34.0.

Average mean precipitation for 22 years, 4.36 .

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of April, 1892.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of April, 1892, . . . . . 938

Population estimated at 459,062.

Rate per 1,000 inhabitants, 24.51

Total number . . . . . 938

### SEX.

Males . . . . . 462

Females . . . . . 476

### CONDITION.

Married . . . . . 287

Single . . . . . 513

Widows . . . . . 89

Widowers . . . . . 36

Unknown . . . . . 13

### COLOR.

White . . . . . 914

Colored . . . . . 24

Total deaths of children { Under 1 year . . . . . 169  
Under 2 years . . . . . 220  
Under 5 years . . . . . 275

Diarrhœal diseases { Under 1 year . . . . . 2  
Under 2 years . . . . . 2  
Under 5 years . . . . . 2  
All ages . . . . . 5

### NATIVITY.

United States . . . . . 593

Ireland . . . . . 179

England . . . . . 25

Scotland . . . . . 5

Germany . . . . . 17

British America . . . . . 62

Italy . . . . . 8

Other Countries . . . . . 30

Unknown . . . . . 19

### PARENTAGE.

United States . . . . . 230

Irish . . . . . 319

English . . . . . 22

Scotch . . . . . 8

German . . . . . 25

British American . . . . . 49

Italian . . . . . 19

Other Countries . . . . . 88

Mixed . . . . . 72

Unknown . . . . . 106

Still-births during the month . . . . . 57

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for April, 1892.	Total Mortality for April, 1891.	AGE.																		SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
I. ZYMOTICS.																							
ALCOHOLISM . . . . .	7	3											4	1		2						4	3
CROUP . . . . .	5	2				4	1		5													2	3
CARBUNCLE . . . . .	1															1						1	
CHOLERA MORBUS . . . . .	1															1						1	
CHOLERA INFANTUM . . . . .	2	4			2				2													1	1
CEREBRO-SPINAL MENINGITIS . . . . .	1								1	1													1
CONGESTIVE FEVER . . . . .																							
DIARRHŒA . . . . .	1	1											1										1
DYSENTERY . . . . .	1	1														1							1
DIPHTHERIA . . . . .	52	17		1	4	8	4	12	3	32	16	3			1						23	29	
ERYSIPELAS . . . . .	3	8		1						1					1	1							3
INTERMITTENT FEVER . . . . .																							
INFLUENZA . . . . .	3	3														1	1	1				2	1
MEASLES . . . . .	1	2				1				1													1
PURPURA . . . . .	1		1							1													1
PUERPERAL FEVER. . . . .	6	4										1	2	3									6
PYŒMIA . . . . .																							
REMITTENT FEVER . . . . .																							
RHEUMATISM . . . . .	4	1									1				1	1	1					2	2
SCARLATINA . . . . .	25	7	3	2	2	5	1	2	2	17	6	1	1									14	11
SMALL POX . . . . .																							
SYPHILIS (CONGENITAL) . . . . .	5	2	2	2	1					5												3	2
SYPHILIS . . . . .		2																					
SEPTICÆMIA . . . . .		2																					
TONSILLITIS . . . . .																							
TYPHOID FEVER. . . . .	7	9										3	2	1	1							2	5
TYPHUS FEVER . . . . .																							
WHOOPING COUGH . . . . .	3	8	1	1				1		3													3
YELLOW FEVER . . . . .																							
OTHER ZYMOTIC DISEASES . . . . .	1													1								1	
II. CONSTITUTIONAL.																							
CANCER . . . . .	33	31												5	8	4	9	5	2			8	25
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	15	18	2	3		3	2	1		11	3			1								6	9
MARASMUS, SCROFULA AND TABES MESENTERICA	27	27	19	2	1	3				25				1					1			16	11
PHTHISIS PULMONALIS . . . . .	135	125		1		2				3	1	14	53	29	20	10	5					74	61
OTHER CONSTITUTIONAL DISEASES . . . . .	25	18			5	1		1	1	8		3	5	3	1	4	1					11	14



of April, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for April, 1892.	Total Mortality for April, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APoplexy . . . . .	16	31						1	1			1	1	3	6	2	2					8	8	
BRIGHT'S DISEASE . . . . .	20	17							1	1	1	1	2	3	1	4	7					10	10	
BRONCHITIS . . . . .	51	42	4	6	6	6	3	1		26	2		1		2	6	5	5	4			20	31	
HEART DISEASE . . . . .	90	64	2	1	1					4	3	7	6	8	10	18	16	13	5			45	45	
MENINGITIS . . . . .	27	26	1	3	3	4	2	1		14	2	3	1	4	2		1					17	10	
NEPHRITIS . . . . .	12	18												2	1	1	2	4	2			7	5	
PLEURISY . . . . .	1	1											1									1		
PNEUMONIA . . . . .	102	151	5	6	10	8	3	3		35	2	5	13	6	13	6	10	9	3			53	49	
OTHER LOCAL DISEASES . . . . .	132	134	12	5	4	4	6			31	3	4	17	13	18	14	16	9	7			60	72	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	3	1							1												1		
INANITION . . . . .	15	19	12	2		1				15												10	5	
OLD AGE . . . . .	24	31														4	6	11	2	1		9	15	
PREMATURE BIRTH . . . . .	13	12	13							13												7	6	
PUERP'L DISEASES (not including Puerp'l Fever)	3	2											2	1									3	
OTHER DEVELOPMENTAL DISEASES . . . . .	21	29	11	1	1	1		1		15	1				2		2		1			12	9	
V. VIOLENT.																								
ACCIDENTAL . . . . .	29	33	1		1			1	3	1	2	4	10	5	3			1				21	8	
HOMICIDAL . . . . .	2											1					1					1	1	
SUICIDAL . . . . .	10	8											2	2	4	1	1					8	2	
OTHER VIOLENT CAUSES . . . . .	1												1										1	
UNKNOWN CAUSES . . . . .	3	6	1							1	1			1								1	2	
TOTAL FROM ALL CAUSES . . . . .	938	913	91	37	41	51	22	25	8	275	43	47	118	96	90	85	90	54	37	2	1	462	476	
TOTAL FROM ZYMOTIC DISEASES . . . . .	130																							
INCLUDING TUBERCULAR DISEASES . . . . .	321	76	7	7	9	13	6	15	6	68	23	8	9	7	4	7	3	1				56	74	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	235	219	21	6	6	9	2	2	1	47	4	17	58	39	29	18	15	5	3			115	120	
" " LOCAL do. . . . .	461	484	24	21	24	22	14	6	1	112	13	20	44	35	48	53	65	40	21			221	230	
" " DEVELOPMENTAL do. . . . .	77	87	37	3	1	2		1		44	1		2	1	2		6	6	12	2	1	39	38	
" " VIOLENT CAUSES . . . . .	42	41	1		1			1		3	1	2	5	13	7	7	1	2	1			30	12	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of April, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING APRIL, 1892.			CASES REPORTED DURING APRIL, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	135	....	Diphtheria . . . . .	71	....
Measles . . . . .	124	1	Measles . . . . .	501	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	339	1	Scarlatina . . . . .	151	....
Typhoid Fever . . . . .	31	....	Typhoid Fever . . . . .	24	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of April, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.51	46	48	S.W.	.00	Mean Barometer, 30.02.
2	30.20	52	72	S.W.	.00	Highest Barometer, 30.54, on the 1st.
3	29.96	65	53	W.	.00	Lowest Barometer, 29.45, on the 10th.
4	30.00	59	68	S.E.	.04	Monthly Range of Barometer, 1.06.
5	29.92	50	91	E.	.10	Mean Temperature, 48.
6	29.78	58	58	W.	.00	Highest Temperature, 77.0, on the 3d.
7	29.88	52	48	W.	.00	Lowest Temperature, 27.0, on the 25th.
8	29.66	56	62	W.	.00	Monthly Range of Temperature, 50.0.
9	29.64	47	56	W.	.04	Greatest Daily Range of Temperature, 32.0 on the 6th.
10	29.58	40	54	W.	.00	Least Daily Range of Temperature, 6.0 on the 15th.
11	29.86	40	47	W.	.00	Mean Daily Range of Temperature, 18.1.
12	30.00	38	38	W.	.00	Mean Daily Dew-point, 30.3.
13	30.02	43	50	N.W.	.00	Mean Daily Relative Humidity, 53.8.
14	29.96	44	38	W.	.00	Prevailing Direction of Wind, W.
15	29.67	41	53	N.E.	.00	Total Movement of Wind, 8,970 Miles.
16	29.79	44	40	N.W.	.00	Highest Velocity of Wind and Direction, 36 miles S.W. on the 2d.
17	29.88	43	38	W.	.00	Number of Foggy Days, 0.
18	29.93	42	54	E.	.00	Number of Clear Days, 14.
19	30.24	46	50	N.	.00	Number of Fair Days, 10.
20	30.41	52	41	W.	.00	Number of Cloudy Days, 6.
21	30.29	50	65	W.	.13	Total Number of Days on which Rain or Snow fell, 7.
22	29.88	54	86	S.W.	.38	Depth of unmelted Snow on ground at end of month, 0.
23	29.84	57	67	W.	.15	Dates of Auroras, 23d 24th, 25th.
24	30.16	56	35	W.	.00	Dates of Solar Halos, 8th, 14th, 16th, 21st, 22d.
25	30.45	40	49	S.W.	.00	Dates of Lunar Halos, 3d, 4th, 7th, 12th.
26	30.38	45.0	38	E.	.00	Mean Max. Temp., 57.0.
27	30.43	45.0	46	E.	.00	Mean Min. Temp., 39.0.
28	30.11	46	69	S.	.01	Thunder storm, 0.
29	29.94	52.0	64	S.W.	.18	Dates of Frosts, 0.
30	30.26	48	42	W.	.00	
TOTALS .....	900.63	145	1010	—	.93	
MEANS .....	30.02	48	50		.031	

Average mean temperature for 22 years, 45.0.

Average mean precipitation for 22 years, 3.39.

\*T indicates trace of precipitation.

COMPARATIVE TEMPERATURE.		COMPARATIVE PRECIPITATIONS.	
	Inches.		
1871 . . . . .	47	1871 . . . . .	3.79
1872 . . . . .	45	1872 . . . . .	1.31
1873 . . . . .	47	1873 . . . . .	3.83
1874 . . . . .	37	1874 . . . . .	7.97
1875 . . . . .	42	1875 . . . . .	4.92
1876 . . . . .	43	1876 . . . . .	3.61
1877 . . . . .	44	1877 . . . . .	4.19
1878 . . . . .	47	1878 . . . . .	6.14
1879 . . . . .	42	1879 . . . . .	6.58
1880 . . . . .	46	1880 . . . . .	2.85
1881 . . . . .	43	1881 . . . . .	1.66
1882 . . . . .	42	1882 . . . . .	2.50
1883 . . . . .	44	1883 . . . . .	2.83
1884 . . . . .	43	1884 . . . . .	4.76
1885 . . . . .	46	1885 . . . . .	3.30
1886 . . . . .	48	1886 . . . . .	1.70
1887 . . . . .	44	1887 . . . . .	2.62
1888 . . . . .	42	1888 . . . . .	2.04
1889 . . . . .	48	1889 . . . . .	3.07
1890 . . . . .	46	1890 . . . . .	2.29
1891 . . . . .	48	1891 . . . . .	1.71
1892 . . . . .	48	1892 . . . . .	0.93

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of May, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of May, 1892, . . . . . 895

Population estimated at 459,062.

Rate per 1,000 inhabitants, 23.39

Total number . . . . . 895

### SEX.

Males . . . . . 469

Females . . . . . 426

### CONDITION.

Married . . . . . 263

Single . . . . . 488

Widows . . . . . 109

Widowers . . . . . 27

Unknown . . . . . 8

### COLOR.

White . . . . . 876

Colored . . . . . 19

### NATIVITY.

United States . . . . . 563

Ireland . . . . . 180

England . . . . . 19

Scotland . . . . . 12

Germany . . . . . 11

British America . . . . . 66

Italy . . . . . 11

Other Countries . . . . . 23

Unknown . . . . . 10

### PARENTAGE.

United States . . . . . 220

Irish . . . . . 301

English . . . . . 19

Scotch . . . . . 14

German . . . . . 26

British American . . . . . 60

Italian . . . . . 24

Other Countries . . . . . 84

Mixed . . . . . 73

Unknown . . . . . 74

Still-births during the month . . . . . 60

Total deaths of children	Under 1 year . . . . .	141
	Under 2 years . . . . .	185
	Under 5 years . . . . .	243

Diarrhœal diseases	Under 1 year . . . . .	0
	Under 2 years . . . . .	1
	Under 5 years . . . . .	1
	All ages . . . . .	2

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for May, 1892.	Total Mortality for May, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	4	3											1	1								3	1	
CROUP . . . . .	5	6				3			1	4	1											12	3	
CARCUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	2				1				1													1	
CEREBRO-SPINAL MENINGITIS . . . . .	3							1		1		2										2	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .		2																						
DYSENTERY . . . . .	1																	1					1	
DIPHTHERIA . . . . .	30	24	1	1	3	11	5	4	2	27	10	2										18	21	
ERYSIPELAS . . . . .	3	8	1	1						2				1								3		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	2	8														1	1					1	1	
MEASLES . . . . .		4																						
PURPURA . . . . .		1																						
PUERPERAL FEVER . . . . .		2																						
PYŒMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	4	2									1	1	1			1							4	
SCARLATINA . . . . .	34	8			3	5	4	7	2	21	8	5										17	17	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		1																						
SYPHILIS . . . . .	1										1												1	
SEPTICŒMIA . . . . .	4	4														2	1	1				2	2	
TONSILLITIS . . . . .	1	1													1							1		
TYPHOID FEVER . . . . .	9	8										2	5	2								6	3	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	3	3			2	1				3												2	1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	2	1									1							1				2		
II. CONSTITUTIONAL.																								
CANCER . . . . .	25	28											1	5	4	5	6	4				7	18	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	18	3		4	3	2		1	13	3											10	6	
MARASMUS, SCROFULA AND TABES MESENTERICA	26	23	11	3	7		1	1		23		1					1			1		17	9	
PHTHISIS PULMONALIS . . . . .	129	129			2	2	2			6	4	17	43	23	22	7	5		2			54	75	
OTHER CONSTITUTIONAL DISEASES . . . . .	18	16					1			1	1	3	3	4	3	2		1				11	7	



# of May, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for May, 1892.	Total Mortality for May, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	26	23												2	1	5	8	9	1			13	13	
Bright's Disease . . . . .	8	14										1			2	2	2	1				6		
Bronchitis . . . . .	37	62	4	3	6	2	2	1		18	1		1		1	5	7	3	1			24	13	
Heart Disease . . . . .	86	68						1		1	3	11	5	13	8	13	16	12	4			40	46	
Meningitis . . . . .	29	26	1	2	4	4				11	5	2	2	5	1		2		1			13	16	
Nephritis . . . . .	11	13	1							1	2			3		1	1	2	1			6	5	
Pleurisy . . . . .	2																1	1					2	
Pneumonia . . . . .	105	131		3	10	3	8		1	25	2	2	11	15	10	12	14	11	3			58	47	
Other Local Diseases . . . . .	129	117	12	4	5	6	4	3	1	35	2	5	8	10	14	19	19	13	3	1		67	62	
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	4	1	3		1					4												3	1	
Inanition . . . . .	8	19	5	1	2					8												7	1	
Old Age . . . . .	21	20															1	9	8	3		5	16	
Premature Birth . . . . .	15	17	14	1						15												7	8	
Puerperal Diseases (not including Puerperal Fever)	2	3										2											2	
Other Developmental Diseases . . . . .	26	22	15			2				17					3	2	1	3				16	10	
V. VIOLENT.																								
Accidental . . . . .	48	31	2			1		2	1	6		11	6	9	1	10	3	1	1			41	7	
Homicidal . . . . .		3																						
Suicidal . . . . .	6	4												2	2	2						5	1	
Other Violent Causes . . . . .	1	3													1								1	
Unknown Causes . . . . .	1	6										1											1	
TOTAL FROM ALL CAUSES . . . . .	895	891	73	19	49	44	20	20	9	243	43	68	89	96	73	91	89	73	25	5		469	426	
TOTAL FROM ZYMOTIC DISEASES . . . . .	116	89																						
INCLUDING TUBERCULAR DISEASES . . . . .	301	276	2	2	8	21	9	12	5	59	20	14	7	5		6	2	3				59	57	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	214	214	14	3	13	5	6	1	1	43	8	21	47	32	29	14	12	5	2	1		99	115	
" " LOCAL do. . . . .	433	459	18	12	25	15	14	5	2	91	15	20	28	48	37	57	70	52	14	1		227	206	
" " DEVELOPMENTAL do. . . . .	76	82	37	2	3	2				44		2			3	2	2	12	8	3		38	38	
" " VIOLENT CAUSES . . . . .	55	41	2			1		2	1	6		11	6	11	4	12	3	1	1			46	9	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of May, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING MAY, 1892.			CASES REPORTED DURING MAY, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	107	....	Diphtheria . . . . .	141	....
Measles . . . . .	178	....	Measles . . . . .	92	....
Small Pox . . . . .	....	....	Small Pox . . . . .	1	....
Scarlatina . . . . .	373	....	Scarlatina . . . . .	118	1
Typhoid Fever . . . . .	39	....	Typhoid Fever . . . . .	34	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of May, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.26	48	62	S., S.W., N.W.	.08	Mean Barometer, 29.99.
2	29.92	57	88	N.E.	.12	Highest Barometer, 30.44, on the 1st.
3	30.16	44	96	N.E., E.	.22	Lowest Barometer, 29.49, on the 27th.
4	30.00	58	66	S.W.	.40	Monthly Range of Barometer, .945.
5	30.18	58	34	N.W.	.60	Mean Temperature, 56.
6	29.91	57	52	W.	T	Highest Temperature, 78.0, on the 26th.
7	29.83	53	42	N.W.	.00	Lowest Temperature, 39.0, on the 1st.
8	30.04	50	51	N.W.	T	Monthly Range of Temperature, 39.0.
9	30.20	54	61	E.	.00	Greatest Daily Range of Temperature, 33.0 on the 4th.
10	30.14	52	50	E.	.00	Least Daily Range of Temperature, 4.0 on the 15th.
11	29.66	52	87	S.	.49	Mean Daily Range of Temperature, 55.9.
12	29.88	50	78	S.	.01	Mean Daily Dew-point, 43.0.
13	30.19	50	78	E.	.05	Mean Daily Relative Humidity, 68.2.
14	30.26	58	68	S.W.	.00	Prevailing Direction of Wind, W.
15	30.14	51	98	E.	.99	Total Movement of Wind, 9,242 Miles.
16	29.41	64	64	W.	T	Highest Velocity of Wind and Direction, 42 miles E. on the 20th.
17	30.06	63	36	W.	.00	Number of Foggy Days, 0.
18	30.03	64	46	N.W.	.00	Number of Clear Days, 6.
19	30.06	48	81	E.	T	Number of Fair Days, 11.
20	30.00	42	92	N.E.	.77	Number of Cloudy Days, 14.
21	30.08	44	92	E.	.66	Total Number of Days on which Rain or Snow fell, 14.
22	29.82	48	91	N.	.45	Depth of unmelted Snow on ground at end of month, 0.
23	29.54	50	80	W.	.48	Dates of Auroras, 18th, began 8 P.M., ended 2 A.M. 19th.
24	29.76	58	51	S.W., W.	.00	Dates of Solar Halos, 1st and 5th.
25	29.84	66	52	S.W.	.00	Dates of Lunar Halos, 0.
26	29.76	67	84	S., S.W.	.52	Mean Max. Temp., 63.0.
27	29.54	62	72	W.	.11	Mean Min. Temp., 49.0.
28	29.84	62	54	W.	.00	Dates of Frosts, 0.
29	30.05	64	50	S.	.00	COMPARATIVE TEMPERATURE.
30	30.12	64	80	S.	T	1871 . . . . . 58
31	30.41	69	83	S.W.	.00	1872 . . . . . 58
TOTALS .....	929.09	1727	2117	—	5.15	1873 . . . . . 56
MEANS .....	29.96	53	68	W.	.100	1874 . . . . . 57
						1875 . . . . . 58
						1876 . . . . . 54
						1877 . . . . . 55
						1878 . . . . . 56
						1879 . . . . . 60
						1880 . . . . . 63
						1881 . . . . . 55
						1882 . . . . . 49
						1883 . . . . . 56
						1884 . . . . . 54
						1885 . . . . . 52
						1886 . . . . . 56
						1887 . . . . . 59
						1888 . . . . . 52
						1889 . . . . . 60
						1890 . . . . . 57
						1891 . . . . . 56
						1892 . . . . . 56
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . Inches.
						1872 . . . . . 4.54
						1873 . . . . . 3.29
						1874 . . . . . 5.16
						1875 . . . . . 3.70
						1876 . . . . . 3.76
						1877 . . . . . 2.70
						1878 . . . . . 3.38
						1879 . . . . . 1.03
						1880 . . . . . 0.97
						1881 . . . . . 1.67
						1882 . . . . . 4.16
						1883 . . . . . 6.05
						1884 . . . . . 5.11
						1885 . . . . . 3.31
						1886 . . . . . 4.26
						1887 . . . . . 3.08
						1888 . . . . . 1.67
						1889 . . . . . 5.20
						1890 . . . . . 4.15
						1891 . . . . . 4.48
						1892 . . . . . 1.56
						1893 . . . . . 5.15

Average mean temperature for 22 years, 56.0.

Average mean precipitation for 22 years, 3.56.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of June, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of June, 1892, . . . . . 749  
Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 19.13

Total number . . . . . 749

### SEX.

Males . . . . . 389

Females . . . . . 360

### CONDITION.

Married . . . . . 211

Single . . . . . 428

Widows . . . . . 70

Widowers . . . . . 28

Unknown . . . . . 12

### COLOR.

White . . . . . 707

Colored . . . . . 42

Total deaths of children { Under 1 year . . . . . 137  
Under 2 years . . . . . 184  
Under 5 years . . . . . 227

Diarrhoeal diseases { Under 1 year . . . . . 12  
Under 2 years . . . . . 15  
Under 5 years . . . . . 16  
All ages . . . . . 20

### NATIVITY.

United States . . . . . 495

Ireland . . . . . 136

England . . . . . 16

Scotland . . . . . 8

Germany . . . . . 16

British America . . . . . 41

Italy . . . . . 5

Other Countries . . . . . 19

Unknown . . . . . 13

### PARENTAGE.

United States . . . . . 178

Irish . . . . . 247

English . . . . . 15

Scotch . . . . . 12

German . . . . . 23

British American . . . . . 41

Italian . . . . . 20

Other Countries . . . . . 69

Mixed . . . . . 63

Unknown . . . . . 81

Still-births during the month . . . . . 58

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for June, 1892.	Total Mortality for June, 1891.	AGE.																		SEX.		
			Under 3 mos. 3 mos. and under 6 mos. 6 months and under 1 year. 1 year and under 2 yrs. 2 years and under 3 yrs. 3 years and under 4 yrs. 4 years and under 5 yrs. Total under 5 years. 5 years and under 10 yrs. 10 years and under 20 yrs. 20 years and under 30 yrs. 30 years and under 40 yrs. 40 years and under 50 yrs. 50 years and under 60 yrs. 60 years and under 70 yrs. 70 years and under 80 yrs. 80 years and under 90 yrs. 90 years and under 100 yrs. 100 years and over.	Males.	Females.																		
I. ZYMOTICS.																							
ALCOHOLISM . . . . .	4	7												2		1	1					3	1
CROUP . . . . .	3	1				2		1		3												1	2
CARBUNCLE . . . . .																							
CHOLERA MORBUS . . . . .	1														1								1
CHOLERA INFANTUM . . . . .	16	23	1	6	5	3			1	16												8	8
CEREBRO-SPINAL MENINGITIS . . . . .	1	1					1			1												1	
CONGESTIVE FEVER . . . . .																							
DIARRHŒA . . . . .	2	2														1				1			2
DYSENTERY . . . . .	1	2												1									1
DIPHTHERIA . . . . .	23	16			4	2	2	2	10	10	2	1										13	10
ERYSIPELAS . . . . .	6	4	1						1					3		1	1					3	3
INTERMITTENT FEVER . . . . .																							
INFLUENZA . . . . .	2	3															1	1					2
MEASLES . . . . .	4	2			1	1				2	1		1									2	2
PURPURA . . . . .																							
PUERPERAL FEVER . . . . .	4	1											2	2									4
PYEMIA . . . . .	1	2															1					1	
REMITTENT FEVER . . . . .																							
RHEUMATISM . . . . .	6	2													1	3	2					6	
SCARLATINA . . . . .	18	2				1	3	3	1	8	6	2	2									9	9
SMALL POX . . . . .																							
SYPHILIS (CONGENITAL) . . . . .		1																					
SYPHILIS . . . . .																							
SEPTICÆMIA . . . . .	1	11															1					1	
TONSILLITIS . . . . .	2										1				1							2	
TYPHOID FEVER . . . . .	6	4										3	3									3	3
TYPHUS FEVER . . . . .																							
WHOOPING COUGH . . . . .	3	1	2	1						3													3
YELLOW FEVER . . . . .																							
OTHER ZYMOTIC DISEASES . . . . .																							
II. CONSTITUTIONAL.																							
CANCER . . . . .	33	27												7	4	11	6	2	3			10	23
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	20	25	1	4	6	4	2	1	17	1		1	1									10	10
MARASMUS, SCHRÖFULA AND TABES MESENTERICA	13	21	3	3	3				9		1			1		1		1				7	6
PHTHISIS PULMONALIS . . . . .	90	119	1			2			1	4	1	17	25	22	8	7	3	2	1			43	47
OTHER CONSTITUTIONAL DISEASES . . . . .	17	18	1		3		1		5		2	5	3			1	1					7	10



of June, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for June, 1892.	Total Mortality for June, 1891.																			Males.	Females.	
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.			100 years and over.
III. LOCAL.																							
APoplexy . . . . .	30	33					1		1		1	3	2	4	6	6	4	4			10	20	
BRIGHT'S Disease . . . . .	10	10										1		2	3	1	2	1			7	3	
BRONCHITIS . . . . .	36	41	2	4	9	8	2	2	27			1	1	2			3	2			19	17	
HEART Disease . . . . .	62	45	2				2		4	2	3	8	3	14	8	13	6	1			31	31	
MENINGITIS . . . . .	29	15		2	6	5	1		3	17	4	3	2	2	1						13	16	
NEPHRITIS . . . . .	13	10				1			1		1	2	2		4	1	1	1			5	8	
PLeURISY . . . . .	1														1							1	
PNEUMONIA . . . . .	58	60	3	3	8	6	1		2	23	1	2	7	4	8	3	4	6			38	20	
OTHER LOCAL DISEASES . . . . .	125	121	12	6	10	6	1	1	1	37	3	1	11	9	14	12	17	17	3	1	69	56	
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .	3	1	3						3												2	1	
INANITION . . . . .	5	7	2	1	1	1			5												3	2	
OLD AGE . . . . .	18	23															7	6	4	1	4	14	
PREMATURE BIRTH . . . . .	11	21	11						11												6	5	
PUERP'L DISEASES (not including Puerp'l Fever)	5											3	2									5	
OTHER DEVELOPMENTAL DISEASES . . . . .	15	14	9				1		10					1		3		1			14	1	
V. VIOLENT.																							
ACCIDENTAL . . . . .	38	35	1			3	1		3	8	6	1	4	9	4	2	2	1	1		30	8	
HOMICIDAL . . . . .	1				1				1													1	
SUICIDAL . . . . .	9	1										1	3	3		2					7	2	
OTHER VIOLENT CAUSES . . . . .	2	2													2							2	
UNKNOWN CAUSES . . . . .	1	2													1						1		
TOTAL FROM ALL CAUSES . . . . .	749	736	55	30	52	47	19	10	14	227	36	40	85	78	65	67	66	53	26	5	1	389	360
TOTAL FROM ZYMOTIC DISEASES . . . . .	104	55																					
INCLUDING TUBERCULAR DISEASES . . . . .	256	260	4	7	6	11	6	6	4	44	18	7	9	8	3	6	7	1	1		53	51	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	173	210	6	7	11	6	3	1	1	35	2	20	31	33	13	18	11	5	6		77	96	
" " LOCAL do. . . . .	364	335	19	15	33	26	8	13	6	110	10	11	35	23	44	38	41	39	12	1	192	172	
" " DEVELOPMENTAL do. . . . .	57	66	25	1	1	1	1			29			3	2	1		3	7	7	4	1	29	28
" " VIOLENT CAUSES . . . . .	50	38	1		1	3	1		3	9	6	2	7	12	4	4	4	1	1		37	13	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of June, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING JUNE, 1892.			CASES REPORTED DURING JUNE, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	77	....	Diphtheria . . . . .	49	....
Measles . . . . .	177	1	Measles . . . . .	280	5
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	217	....	Scarlatina . . . . .	97	....
Typhoid Fever . . . . .	60	1	Typhoid Fever . . . . .	42	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of June, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.157	74	79	S.W.	.00	Mean Barometer, 29.07.
2	29.960	80	62	S.W.	.00	Highest Barometer, 30.43, on the 4th.
3	30.115	66	69	W.	.33	Lowest Barometer, 29.59, on the 22d.
4	30.428	58	62	E.	.00	Monthly Range of Barometer, 0.838.
5	30.232	65	72	S.	T	Mean Temperature, 70.
6	29.884	74	70	W.	T	Highest Temperature, 96.0, on the 14th.
7	30.150	65	54	E.	.00	Lowest Temperature, 49.0, on the 11th.
8	30.181	66	51	S.	.00	Monthly Range of Temperature, 46.0.
9	29.900	60	94	S.W.	.31	Greatest Daily Range of Temperature, 32.0 on the 17th.
10	30.003	55	57	N.E.	.00	Least Daily Range of Temperature, 4.0 on the 4th.
11	29.998	65	63	W.	.00	Mean Daily Range of Temperature, 17.1.
12	29.870	74	57	W.	.00	Mean Daily Dew-point, 57.7.
13	29.895	83	67	W.	.00	Mean Daily Relative Humidity, 70.
14	29.803	85	66	W.	.01	Prevailing Direction of Wind, S.W.
15	30.052	69	54	N.W.	.11	Total Movement of Wind, 8,608 Miles.
16	30.089	69	68	S.W.	.00	Highest Velocity of Wind and Direction, 38 miles N.E. on the 10th.
17	30.089	76	78	S.W.	.73	Number of Foggy Days, 0.
18	30.297	61	81	E.	.00	Number of Clear Days, 7.
19	29.923	68	90	S.W.	.00	Number of Fair Days, 10.
20	29.611	79	62	W.	.00	Number of Cloudy Days, 13.
21	29.650	75	64	W.	.00	Total Number of Days on which Rain or Snow fell, 10.
22	29.678	79	51	W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	29.782	71	65	W.	.02	Dates of Auroras, 0.
24	29.968	61	84	E.	T	Dates of Solar Halos, 4th and 8th.
25	29.939	65	92	S.	.99	Dates of Lunar Halos, 0.
26	30.018	61	87	E.	.08	Mean Max. Temp., 78.1.
27	29.953	65	91	E.	.17	Thunder storm, 6th, 14th and 17th.
28	29.652	65	70	S.W.	.80	Mean Min. Temp., 61.1.
29	29.997	70	67	S.W.	.00	Dates of Frosts, 0.
30	29.931	73	84	S.W.	T	
						COMPARATIVE TEMPERATURE.
						1871 . . . . . 65
						1872 . . . . . 68
						1873 . . . . . 68
						1874 . . . . . 66
						1875 . . . . . 67
						1876 . . . . . 63
						1877 . . . . . 67
						1878 . . . . . 64
						1879 . . . . . 64
						1880 . . . . . 67
						1881 . . . . . 61
						1882 . . . . . 66
						1883 . . . . . 69
						1884 . . . . . 66
						1885 . . . . . 66
						1886 . . . . . 63
						1887 . . . . . 64
						1888 . . . . . 67
						1889 . . . . . 69
						1890 . . . . . 64
						1891 . . . . . 65
						1892 . . . . . 70
						COMPARATIVE PRECIPITATIONS.
						Inches.
						1871 . . . . . 5.55
						1872 . . . . . 4.84
						1873 . . . . . 0.74
						1874 . . . . . 3.94
						1875 . . . . . 7.25
						1876 . . . . . 1.72
						1877 . . . . . 3.21
						1878 . . . . . 2.98
						1879 . . . . . 6.24
						1880 . . . . . 0.75
						1881 . . . . . 7.79
						1882 . . . . . 1.03
						1883 . . . . . 2.07
						1884 . . . . . 4.01
						1885 . . . . . 3.70
						1886 . . . . . 1.34
						1887 . . . . . 1.98
						1888 . . . . . 2.69
						1889 . . . . . 2.77
						1890 . . . . . 2.21
						1891 . . . . . 3.06
						1892 . . . . . 3.05
TOTALS .....	899.005	2077	2111	—	3.05	
MEANS .....	29.966	69	70	S.W.	.102	

Average mean temperature for 22 years, 66.0.

Average mean precipitation for 22 years, 3.27 .

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of July, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of July, 1892, . . . . . IIII

Population estimated at 469,647.

Rate per 1,000 inhabitants, 28.38

Total number . . . . .	1111	NATIVITY.	
SEX.		United States . . . . .	828
Males . . . . .	566	Ireland . . . . .	160
Females . . . . .	545	England . . . . .	12
CONDITION.		Scotland . . . . .	5
Married . . . . .	238	Germany . . . . .	14
Single . . . . .	765	British America . . . . .	48
Widows . . . . .	77	Italy . . . . .	3
Widowers . . . . .	24	Other Countries . . . . .	24
Unknown . . . . .	7	Unknown . . . . .	17
COLOR.		PARENTAGE.	
White . . . . .	1090	United States . . . . .	252
Colored . . . . .	21	Irish . . . . .	362
Total deaths of children	Under 1 year . . . . .	English . . . . .	20
	Under 2 years . . . . .	Scotch . . . . .	18
	Under 5 years . . . . .	German . . . . .	31
Diarrhoeal diseases	Under 1 year . . . . .	British American . . . . .	71
	Under 2 years . . . . .	Italian . . . . .	17
	Under 5 years . . . . .	Other Countries . . . . .	112
	All ages . . . . .	Mixed . . . . .	128
		Unknown . . . . .	100
		Still-births during the month . . . . .	51

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for July, 1892.	Total Mortality for July, 1891.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	8	5											1	4	2			1				6	2	
CROUP . . . . .	2	1					1			1	1										1	1		
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .	10	10							1	1	2	1		1	2	1	1	1			3	7		
CHOLERA INFANTUM . . . . .	269	236	35	79	121	33		1		269											128	141		
CEREBRO-SPINAL MENINGITIS . . . . .		3																						
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	18	18	2	4	6					12		1					1	3	1		12	6		
DYSENTERY . . . . .	6	7						1		1	1						3		1		3	3		
DIPHTHERIA . . . . .	19	6			1	1	3	3	6	14	5										7	12		
ERYSIPELAS . . . . .	4	2	1					1	2							1	1				3	1		
INTERMITTENT FEVER . . . . .		1																						
INFLUENZA . . . . .		1																						
MEASLES . . . . .	1					1				1													1	
PURPURA . . . . .																								
PUERPERAL FEVER . . . . .	1	1											1										1	
PYŒMIA . . . . .	2	3	1							1		1									1	1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	9										1				2	1	2	2	1		2	7		
SCARLATINA . . . . .	10					3	1	1	2	7	2	1									5	5		
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1	7	1							1													1	
SYPHILIS . . . . .																								
SEPTICŒMIA . . . . .	1	1													1						1			
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	6	7					1	1		2		1	1		1		1				5	1		
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	1			1					1													1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	4	1			1					1		1	1		1						2	2		
II. CONSTITUTIONAL.																								
CANCER . . . . .	22	27													1	6	4	6	3	2		4	18	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	19	20	2	2	7	4	2			17	1		1								12	7		
MARASMUS, SCROFULA AND TABES MESENTERICA	35	53	15	12	3	1			1	32	1					1			1		16	19		
PHTHISIS PULMONALIS . . . . .	137	114	1	2	3	1	1			8	3	14	41	32	19	6	8	5	1		58	79		
OTHER CONSTITUTIONAL DISEASES . . . . .	22	8		1	2			2		5	2	1	4	4	3	2	1				10	12		



# of July, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for July, 1892.	Total Mortality for July, 1891.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	27	22										1	3	4	4	7	5	3				12	15	
Bright's Disease . . . . .	12	12										2	1	4	2	1	2				9	3		
Bronchitis . . . . .	19	31	1	2	3	2				8		1	1	1	1	4		2	1		6	13		
Heart Disease . . . . .	52	47									2	4	3	1	12	8	14	6	2		29	23		
Meningitis . . . . .	31	32		6	6	6	2	2		22	1		1	5	1		1				11	20		
Nephritis . . . . .	12	17		1						1	1				2	3	3	1	1		8	4		
Pleurisy . . . . .		1																						
Pneumonia . . . . .	36	35		1	1	3	2	2	2	11	4	4	3	3	4	1	1	4	1		18	18		
Other Local Diseases . . . . .	214	164	24	25	30	12	2	4		97		11	10	23	17	20	17	11	7	1	129	85		
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	2		2							2											1	1		
Inanition . . . . .	13	13	11	1	1					13											7	6		
Old Age . . . . .	16	21															1	6	8	1	6	10		
Premature Birth . . . . .	15	18	15							15											9	6		
Puerp'l Diseases (not including Puerp'l Fever)																								
Other Developmental Diseases . .	15	19	5	1	1	2	1			10		1	1		1	1	1				6	9		
V. VIOLENT.																								
Accidental . . . . .	31	33	2	1						3	5	2	4	6	3	2	3	1	2		27	4		
Homicidal . . . . .	2													1	1						2			
Suicidal . . . . .	4	3											1	2			1				4			
Other Violent Causes . . . . .	1	1				1				1											1			
Unknown Causes . . . . .	2	3	1							1		1									2			
TOTAL FROM ALL CAUSES . . . . .	1111	1005	119	133	187	70	16	18	12	560	32	44	77	89	80	58	78	51	33	3	566	545		
TOTAL FROM ZYMOTIC DISEASES . . . . .	372	311																						
Including Tubercular Diseases . . . .	537	486	40	33	130	38	6	8	9	314	12	6	4	6	8	3	9	7	3		179	193		
TOTAL FROM CONSTITUTIONAL DISEASES . .	235	222	18	17	15	6	3	2	1	62	7	15	46	37	28	13	15	8	4		100	135		
" " LOCAL do. . . . .	403	361	25	35	40	23	6	8	2	139	8	19	21	37	45	39	48	29	16	2	222	181		
" " DEVELOPMENTAL do. . . . .	61	71	33	2	2	2	1			40		1	1		1	1	2	6	8	1	29	32		
" " VIOLENT CAUSES . . . . .	38	37	2	1		1				4	5	2	5	9	4	2	4	1	2		34	4		

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of July, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING JULY, 1892.			CASES REPORTED DURING JULY, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	76	....	Diphtheria . . . . .	31	....
Measles . . . . .	81	19	Measles . . . . .	41	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	124	....	Scarlatina . . . . .	49	....
Typhoid Fever . . . . .	60	....	Typhoid Fever . . . . .	62	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of July, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.091	63	78	W.	.13	Mean Barometer, 30.03.
2	30.102	67	70	S.W.	.00	Highest Barometer, 30.51, on the 7th.
3	29.753	71	68	S.W.	.53	Lowest Barometer, 29.65, on the 3d.
4	29.941	68	46	N.W.	.00	Monthly Range of Barometer, 0.861.
5	30.311	64	52	E., N.W.	.00	Mean Temperature, 73.
6	30.453	65	64	E.	.00	Highest Temperature, 96.0, on the 26th.
7	30.451	65	50	E.	.00	Lowest Temperature, 54.0, on the 17th.
8	30.195	68	70	E.	T	Monthly Range of Temperature, 42.0.
9	30.121	66	70	S.W.	.01	Greatest Daily Range of Temperature, 25.0 on the 22d.
10	30.072	74	69	W.	.00	Least Daily Range of Temperature, 6.0 on the 1st.
11	30.032	80	58	S.W.	.00	Mean Daily Range of Temperature, 15.0.
12	29.923	72	65	W.	.00	Mean Daily Dew-point, 59.4.
13	29.881	80	73	W.	.00	Mean Daily Relative Humidity, 64.4.
14	29.881	79	70	W.	.00	Prevailing Direction of Wind, S.W.
15	29.807	79	71	S.	.10	Total Movement of Wind, 7,117 Miles.
16	29.847	72	66	W.	.15	Highest Velocity of Wind and Direction, 34 miles S.W. on the 3d.
17	30.096	65	52	W.	.00	Number of Foggy Days, 0.
18	30.086	70	48	W.	.00	Number of Clear Days, 15.
19	30.040	73	62	S.W.	.00	Number of Fair Days, 13.
20	29.946	76	56	N.W.	.00	Number of Cloudy Days, 4.
21	30.097	66	53	N.W.	.00	Total Number of Days on which Rain or Snow fell, 11.
22	29.978	78	58	S.W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	29.905	78	61	S.W., W.	.00	Dates of Auroras, 15th, 16th, 20th, and 25th.
24	29.961	80	60	S.W.	.00	Dates of Solar Halos, 0.
25	29.934	84	69	S.W.	.32	Dates of Lunar Halos, 0.
26	29.881	85	62	W.	.00	Mean Max. Temp., 81.3.
27	29.877	73	47	N.W.	.00	Mean Min. Temp., 64.6.
28	29.890	76	58	N.W.	T	Dates of Frosts, 0.
29	29.039	72	70	N.W.	.01	COMPARATIVE TEMPERATURE.
30	30.044	73	74	E.	.05	1871 . . . . . 71
31	30.089	64	80	N.E.	.95	1872 . . . . . 75
TOTALS .....	930.624	2240	1971	—	.225	1873 . . . . . 73
MEANS .....	30.020	72	68	S.W.	.072	1874 . . . . . 71
						1875 . . . . . 74
						1876 . . . . . 70
						1877 . . . . . 73
						1878 . . . . . 70
						1879 . . . . . 70
						1880 . . . . . 68
						1881 . . . . . 72
						1882 . . . . . 71
						1883 . . . . . 68
						1884 . . . . . 71
						1885 . . . . . 71
						1886 . . . . . 73
						1887 . . . . . 68
						1888 . . . . . 69
						1889 . . . . . 91
						1890 . . . . . 69
						1891 . . . . . 72
						1892 . . . . . 2.56

Average mean temperature for 22 years, 71.0.

Average mean precipitation for 22 years, 3.53.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of August, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of August, 1892, . . . . . 1014  
Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 25.90

Total number . . . . . 1014

### SEX.

Males . . . . . 487

Females . . . . . 527

### CONDITION.

Married . . . . . 215

Single . . . . . 675

Widows . . . . . 90

Widowers . . . . . 25

Unknown . . . . . 9

### COLOR.

White . . . . . 988

Colored . . . . . 26

Total deaths of children { Under 1 year . . . . . 410  
Under 2 years . . . . . 456  
Under 5 years . . . . . 496

Diarrhœal diseases { Under 1 year . . . . . 189  
Under 2 years . . . . . 206  
Under 5 years . . . . . 209  
All ages . . . . . 230

### NATIVITY.

United States . . . . . 724

Ireland . . . . . 160

England . . . . . 21

Scotland . . . . . 6

Germany . . . . . 9

British America . . . . . 47

Italy . . . . . 5

Other Countries . . . . . 21

Unknown . . . . . 21

### PARENTAGE.

United States . . . . . 215

Irish . . . . . 334

English . . . . . 21

Scotch . . . . . 12

German . . . . . 22

British American . . . . . 51

Italian . . . . . 19

Other Countries . . . . . 128

Mixed . . . . . 108

Unknown . . . . . 104

Still-births during the month . . . . . 55

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for August, 1892.	Total Mortality for August, 1891.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	11	6											4	1									8	3
CROUP . . . . .	1	2									1												1	
CARUNCLE . . . . .		1																						
CHOLERA MORBUS . . . . .	8	6									1		1				1	2	2	1			3	5
CHOLERA INFANTUM . . . . .	196	206	37	54	86	17	2			196													103	93
CEREBRO-SPINAL MENINGITIS . . . . .	1	1							1	1														1
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	19	24	2	6	3					1	12		1				1	1	2	2			7	12
DYSENTERY . . . . .	7	18		1						1			2					1	2	1			2	5
DIPHTHERIA . . . . .	23	8			1	5	3	5	5	19	4												10	13
ERTSIPELAS . . . . .	1		1							1														1
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .																								
MEASLES . . . . .	2				1	1				2													1	1
PURPURA . . . . .		2																						
PUERPERAL FEVER. . . . .	3	1										3												3
PYÆMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	3																1	1		1				3
SCARLATINA . . . . .	14	1			3	2		2	2	9	5												8	6
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .																								
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	4	1											1	1	1				1				1	3
TONSILLITIS . . . . .																								
TYPHOID FEVER. . . . .	15	14									1	3	8	3									9	6
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	6	1	1						2														2
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	2	1										1	1										1	1
II. CONSTITUTIONAL.																								
CANCER . . . . .	26	36												2	5	6	9	2	2				6	29
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	17	12	1		5	1	3	1	1	12	1	2		1		1							6	11
MARASMUS, SCROFULA AND TABES MESENTERICA	51	49	20	18	10	1				49				1					1				22	29
PHTHISIS PULMONALIS . . . . .	106	105		1	2	1				4		11	49	26	18	4	3						51	55
OTHER CONSTITUTIONAL DISEASES . . . . .	14	11	1	1	1			1		4	1	2	3		3	1							6	8



# of August, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for August, 1892.	Total Mortality for August, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APoplexy . . . . .	25	18			1				1				1	4	6	3	6	4				12	13	
Bright's Disease . . . . .	12	14									1	1	1	3	2	2	2							
BRONCHITIS . . . . .	15	20	3	1	3				7		1	1			2	2	2				4	11		
HEART DISEASE . . . . .	57	53		1			1	1	3		6	5	4	9	6	11	7	6			20	37		
MENINGITIS . . . . .	31	27	2	4	9	7	2		24	1		3	1	1			1				10	12		
NEPHRITIS . . . . .	16	11											1	7	4	2	2				5	11		
PLEURISY . . . . .																								
PNEUMONIA . . . . .	24	27	2	2	2	2		1	1	10	2			4	2	1	5				15	9		
OTHER LOCAL DISEASES . . . . .	176	152	27	23	23	7	2	2	84	2	3	11	10	12	15	13	9	6	2		88	88		
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	1	1						1													1		
INANITION . . . . .	7	12	6		1				7												2	5		
OLD AGE . . . . .	25	27															1	9	13	2	5	20		
PREMATURE BIRTH . . . . .	21	15	19	2					21												15	6		
PUERP'L DISEASES (not including Puerpl Fever)		2																						
OTHER DEVELOPMENTAL DISEASES . . . . .	34	25	19	1		1			21		1		1	1		4	4	2			15	21		
V. VIOLENT.																								
ACCIDENTAL . . . . .	39	50	1			1	1	1	1	5	5	4	9	6	4	2	1	2		1	32	7		
HOMICIDAL . . . . .	1	4														1					1			
SUICIDAL . . . . .	3	2									1					2					1	2		
OTHER VIOLENT CAUSES . . . . .		3																						
UNKNOWN CAUSES . . . . .	1	2														1					1			
TOTAL FROM ALL CAUSES . . . . .	1014	977	143	116	151	46	14	15	11	496	24	36	93	80	71	55	64	51	39	5	487	527		
TOTAL FROM ZYMOTIC DISEASES . . . . .	312	299																						
INCLUDING TUBERCULAR DISEASES . . . . .	476	450	41	62	94	25	5	8	8	243	12	4	10	6	5	5	6	6	6		154	158		
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	214	213	22	20	18	3	3	2	1	69	2	15	43	30	26	12	12	3	2		91	123		
" " LOCAL do. . . . .	356	322	34	31	38	16	5	4	1	129	5	11	22	37	35	34	38	27	16	2	171	185		
" " DEVELOPMENTAL do. . . . .	88	82	45	3	1	1				50		1		1	1		5	13	15	2	36	52		
" " VIOLENT CAUSES . . . . .	43	59	1			1	1	1	1	5	5	5	9	6	4	3	3	2		1	34	9		

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of August, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING AUGUST, 1892.			CASES REPORTED DURING AUGUST, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	78	....	Diphtheria . . . . .	36	....
Measles . . . . .	61	....	Measles . . . . .	20	5
Small Pox . . . . .	1	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	86	....	Scarlatina . . . . .	40	....
Typhoid Fever . . . . .	89	....	Typhoid Fever . . . . .	111	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of August, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.06	64	93	N.	.06	Mean Barometer, 30.01.
2	30.04	62	92	E.	.00	Highest Barometer, 30.26, on the 23d.
3	29.98	66	90	E., N.W.	.38	Lowest Barometer, 29.79, on the 12th.
4	29.92	76	68	S.W.	.00	Monthly Range of Barometer, 0.476.
5	29.87	73	92	W.	.00	Mean Temperature, 70.
6	29.86	74	59	W.	T	Highest Temperature, 94.0, on the 10th.
7	30.10	71	61	N.W.	.00	Lowest Temperature, 55.0, on the 29th, 28th.
8	30.04	71	72	S.W.	.00	Monthly Range of Temperature, 39.0.
9	29.86	80	78	S.W.	T	Greatest Daily Range of Temperature, 22.0 on the 4th.
10	29.98	85	66	S.	T	Least Daily Range of Temperature, 2.0 on the 27th.
11	29.92	84	81	S.W.	.00	Mean Daily Range of Temperature, 12.0.
12	29.80	72	87	N., S.	2.29	Mean Daily Dew-point, 61.4.
13	29.89	65	88	E.	T	Mean Daily Relative Humidity, 77.8.
14	29.94	70	71	E. S.	.00	Prevailing Direction of Wind, S.W.
15	30.01	71	66	N.W.	.00	Total Movement of Wind, 7,427 Miles.
16	30.11	72	60	W.	.00	Highest Velocity of Wind and Direction, 36 miles N.E. on the 28th.
17	30.10	76	64	W.	.00	Number of Foggy Days, 0.
18	30.12	78	78	W.	.00	Number of Clear Days, 9.
19	30.09	78	76	S.W.	.00	Number of Fair Days, 12.
20	29.98	78	78	N.E.	.00	Number of Cloudy Days, 10.
21	29.91	71	70	N.W.	.00	Total Number of Days on which Rain or Snow fell, 8.
22	30.08	72	52	N.W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	30.25	65	72	N.E., E.	.00	Dates of Auroras, 0.
24	30.20	67	76	E., S.E., S.	.00	Dates of Solar Halos, 24th.
25	29.91	68	86	S.E.	.02	Dates of Lunar Halos, 0.
26	29.99	60	94	N.E.	.71	Thunder storm, 5th, 9th, 12th.
27	30.04	56	92	N.	1.10	Mean Max. Temp., 76.7.
28	30.07	60	82	N.	T	Dates of Frosts, 0.
29	30.12	64	81	E.	.00	Mean Min. Temp., 63.6.
30	30.10	61	84	E.	.00	
31	29.91	68	88	S.	.17	
						COMPARATIVE TEMPERATURE.
						1871 . . . . . 72
						1872 . . . . . 72
						1873 . . . . . 69
						1874 . . . . . 68
						1875 . . . . . 71
						1876 . . . . . 70
						1877 . . . . . 71
						1878 . . . . . 68
						1879 . . . . . 68
						1880 . . . . . 69
						1881 . . . . . 70
						1882 . . . . . 70
						1883 . . . . . 68
						1884 . . . . . 68
						1885 . . . . . 67
						1886 . . . . . 68
						1887 . . . . . 67
						1888 . . . . . 71
						1889 . . . . . 67
						1890 . . . . . 69
						1891 . . . . . 70
						1892 . . . . . 70
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . Inches.
						1872 . . . . . 3.08
						1873 . . . . . 10.08
						1874 . . . . . 6.21
						1875 . . . . . 6.67
						1876 . . . . . 3.50
						1877 . . . . . 1.23
						1878 . . . . . 4.49
						1879 . . . . . 7.06
						1880 . . . . . 6.71
						1881 . . . . . 2.90
						1882 . . . . . 1.23
						1883 . . . . . 1.46
						1884 . . . . . 0.39
						1885 . . . . . 5.91
						1886 . . . . . 7.94
						1887 . . . . . 5.64
						1888 . . . . . 5.05
						1889 . . . . . 6.53
						1890 . . . . . 3.95
						1891 . . . . . 2.70
						1892 . . . . . 5.87
TOTAL . . . . .	950.25	2181	2398	—	4.33	
MEANS . . . . .	30.008	70	77	S.W.	.139	

Average mean temperature for 22 years, 69.2.

Average mean precipitation for 22 years, 4.43.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of September, 1892.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of September, 1892, . . . . . 833

Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 21.28

Total number . . . . . 833

### SEX.

Males . . . . . 412

Females . . . . . 421

### CONDITION.

Married . . . . . 227

Single . . . . . 504

Widows . . . . . 66

Widowers . . . . . 31

Unknown . . . . . 5

### COLOR.

White . . . . . 811

Colored . . . . . 22

Total deaths of children { Under 1 year . . . . . 236  
Under 2 years . . . . . 289  
Under 5 years . . . . . 322

Diarrhoeal diseases { Under 1 year . . . . . 60  
Under 2 years . . . . . 74  
Under 5 years . . . . . 76  
All ages . . . . . 84

### NATIVITY.

United States . . . . . 557

Ireland . . . . . 145

England . . . . . 12

Scotland . . . . . 6

Germany . . . . . 14

British America . . . . . 55

Italy . . . . . 3

Other Countries . . . . . 34

Unknown . . . . . 7

### PARENTAGE.

United States . . . . . 184

Irish . . . . . 306

English . . . . . 17

Scotch . . . . . 11

German . . . . . 25

British American . . . . . 52

Italian . . . . . 11

Other Countries . . . . . 89

Mixed . . . . . 74

Unknown . . . . . 64

Still-births during the month . . . . . 44

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for September, 1892.	Total Mortality for September, 1891.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	1	6													1							1		
CROUP . . . . .	3	1			1		1			2	1											1	2	
CARCUNCLE . . . . .	1																1							
CHOLERA MORBUS . . . . .	2	4					1				1							1					2	
CHOLERA INFANTUM . . . . .	57	83	10	13	22	10	2			57												26	31	
CEREBRO-SPINAL MENINGITIS . . . . .		1																						
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	20	17	6	2	5	2				15	1					1		3				9	11	
DYSENTERY . . . . .	5	8			2	1												1	1				5	
DIPHTHERIA . . . . .	31	11			1	8	5	4		18	13											15	16	
ERYSIPELAS . . . . .																								
INTERMITTENT FEVER . . . . .		1																						
INFLUENZA . . . . .																								
MEASLES . . . . .		1																						
PURPURA . . . . .																								
PURPERAL FEVER . . . . .	1	1																						
PYŒMIA . . . . .	3		1							1				1		1						2	1	
REMITTENT FEVER . . . . .	1															1							1	
RHEUMATISM . . . . .	2	1										1					1					1	1	
SCARLATINA . . . . .	9	1			1		2	3	2	8	1											6	3	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		3																						
SYPHILIS . . . . .		1																						
SEPTICŒMIA . . . . .	1									1	1											1		
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	18	20										4	7	4	2		1					11	7	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	6	3		2	2	1	1			6												3	3	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	3	3			1					1	2			1								2	1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	33	22											2	3	7	8	8	4	1			9	24	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	9	18	3	2	2	1			1	9												3	6	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	50	47	19	7	19	2	1			48									2			24	26	
PHTHISIS PULMONALIS . . . . .	109	111		1	1	1	1		1	5	14	43	26	10	6	5						54	55	
OTHER CONSTITUTIONAL DISEASES . . . . .	25	18	1		1	2	1		1	6	1	2	6	4	1	2	2	1				13	12	



# of September, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for September, 1892.	Total Mortality for September, 1891.	AGE.																		SEX.		
			Under 3 mos. 3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																							
Apoplexy . . . . .	27	32									1		2	1	6	5	6	6				16	11
Bright's Disease . . . . .	11	10				1				1					5	2	2	1				5	
Bronchitis . . . . .	16	29	3	2	4	2		1		12						1	2	1				7	9
Heart Disease . . . . .	49	70	1				1			2	1	3	5	7	7	3	12	7	2			18	31
Meningitis . . . . .	18	28	3	3		4				10	1	1	3		2	1						12	6
Nephritis . . . . .	10	8												1	3	1	1	2	1	1		5	5
Pleurisy . . . . .																							
Pneumonia . . . . .	46	24	4	1	5	4	2		1	17			6	7	5	2	5	4				24	22
Other Local Diseases . . . . .	167	157	20	5	19	2	3	1		50	5	9	16	15	13	20	17	15	6	1		87	80
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	1	1	1							1												1	
Inanition . . . . .	17	11	13	4						17												9	8
Old Age . . . . .	9	13																8		1		1	8
Premature Birth . . . . .	7	14	7							7												4	3
Puerp'l Diseases (not including Puerp'l Fever)	2	1											2										2
Other Developmental Diseases . . . . .	18	19	14			1				15						1	1	1				8	10
V. VIOLENT.																							
Accidental . . . . .	39	33	2			1	2	2	1	8	1	3	7	7	4	4	3	1	1			29	10
Homicidal . . . . .	1	1												1								1	
Suicidal . . . . .	2	4														1	1					2	
Other Violent Causes . . . . .	1	3														1						1	
Unknown Causes . . . . .	2	4											1	1								1	1
TOTAL FROM ALL CAUSES . . . . .	833	853	108	42	86	44	22	11	9	322	26	37	103	80	65	60	69	55	14	2		412	421
TOTAL FROM ZYMOTIC DISEASES . . . . .	164	175																					
Including Tubercular Diseases . . . . .	317	350	17	17	35	23	11	7	4	114	16	5	9	5	4	2	3	5	1			78	86
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	226	216	23	10	23	6	3		3	68	1	16	51	33	18	16	15	5	3			103	123
" " LOCAL do. . . . .	344	358	31	11	28	13	6	2	1	92	8	13	33	33	39	35	46	35	9	1		174	170
" " DEVELOPMENTAL do. . . . .	54	59	35	4		1				40			2			1	1	9		1		23	31
" " VIOLENT CAUSES . . . . .	41	41	2			1	2	2	1	8	1	3	7	8	4	6	4	1	1			33	10

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of September, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING SEPTEMBER, 1892.			CASES REPORTED DURING SEPTEMBER, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	79	....	Diphtheria . . . . .	44	....
Measles . . . . .	31	9	Measles . . . . .	15	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	100	....	Scarlatina . . . . .	56	....
Typhoid Fever . . . . .	143	....	Typhoid Fever . . . . .	205	1
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of September, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.01	64	68	W.	.03	Mean Barometer, 30.15.
2	30.20	56	69	E.	.00	Highest Barometer, 30.44, on the 8th.
3	30.33	44	68	S.W.	.00	Lowest Barometer, 29.53, on the 26th.
4	30.18	61	80	E.	.00	Monthly Range of Barometer, 0.912.
5	29.94	68	82	S.W.	.06	Mean Temperature, 62.
6	30.00	65	68	W.	.02	Highest Temperature, 80.0, on the 19th.
7	30.25	60	66	W.	.00	Lowest Temperature, 46.0, on the 11th.
8	30.43	58	76	E., N.W.	.00	Monthly Range of Temperature, 34.0.
9	30.39	59	74	E., S.E., W.	.00	Greatest Daily Range of Temperature, 27.0 on the 30th.
10	30.40	58	88	E.	.00	Least Daily Range of Temperature, 0.0 on the 24th.
11	30.40	55	92	E.	.00	Mean Daily Range of Temperature, 18.0.
12	30.28	60	83	S.	.00	Mean Daily Dew-point, 52.0.
13	30.14	63	87	S.W.	.00	Mean Daily Relative Humidity, S.W.
14	29.82	67	92	S.	.34	Prevailing Direction of Wind, S.W.
15	29.88	67	68	W.	.75	Total Movement of Wind, 7,723 Miles.
16	30.08	65	68	W.	.00	Highest Velocity of Wind and Direction, 36 miles W. on the 26th.
17	30.30	61	64	W.	.00	Number of Foggy Days, 0.
18	30.17	67	80	S.W.	.00	Number of Clear Days, 21.
19	29.96	72	85	S.W.	T	Number of Fair Days, 3.
20	30.32	56	59	N.	.00	Number of Cloudy Days, 6.
21	30.34	61	66	S.W.	.00	Total Number of Days on which Rain or Snow fell, 8.
22	30.34	61	74	S.W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	30.33	70	83	S.W.	T	Dates of Auroras, 0.
24	30.20	71	86	S.W.	T	Dates of Solar Halos, 10th, 22d.
25	29.96	66	95	S.W.	.01	Dates of Lunar Halos, 3d.
26	29.67	62	73	W.	.48	Thunder storm, 0.
27	29.70	55	52	W.	.00	Mean Max. Temp., 70.8.
28	29.98	64	61	W.	.00	Dates of Frosts, 0.
29	30.34	56	48	N.W.	.00	Mean Min. Temp., 54.2.
30	30.21	62	58	S.W.	.00	
TOTALS.....	90463	1874	2213	S.W.	192	COMPARATIVE TEMPERATURE.
MEANS.....	30.154	62	73	S.W.	.060	1871 . . . . . 59
						1872 . . . . . 64
						1873 . . . . . 62
						1874 . . . . . 64
						1875 . . . . . 59
						1876 . . . . . 59
						1877 . . . . . 64
						1878 . . . . . 63
						1879 . . . . . 61
						1880 . . . . . 64
						1881 . . . . . 66
						1882 . . . . . 63
						1883 . . . . . 59
						1884 . . . . . 66
						1885 . . . . . 60
						1886 . . . . . 63
						1887 . . . . . 60
						1888 . . . . . 60
						1889 . . . . . 63
						1890 . . . . . 63
						1891 . . . . . 67
						1892 . . . . . 62
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 1.30
						1872 . . . . . 6.04
						1873 . . . . . 2.91
						1874 . . . . . 2.05
						1875 . . . . . 3.12
						1876 . . . . . 3.84
						1877 . . . . . 0.00
						1878 . . . . . 3.47
						1879 . . . . . 1.84
						1880 . . . . . 2.36
						1881 . . . . . 2.50
						1882 . . . . . 10.93
						1883 . . . . . 1.90
						1884 . . . . . 0.31
						1885 . . . . . 1.70
						1886 . . . . . 2.73
						1887 . . . . . 0.97
						1888 . . . . . 6.77
						1889 . . . . . 3.19
						1890 . . . . . 5.04
						1891 . . . . . 2.29
						1892 . . . . . 1.90

Average mean temperature for 22 years, 62.3.

Average mean precipitation for 22 years, 3.06.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of October, 1892.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of October, 1892, . . . . . 803

Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 20.51

Total number . . . . . 803

### SEX.

Males . . . . . 396

Females . . . . . 407

### CONDITION.

Married . . . . . 240

Single . . . . . 447

Widows . . . . . 82

Widowers . . . . . 28

Unknown . . . . . 6

### COLOR.

White . . . . . 785

Colored . . . . . 18

Total deaths of children	{	Under 1 year . . . . .	158
		Under 2 years . . . . .	192
		Under 5 years . . . . .	237

Diarrhoeal diseases	{	Under 1 year . . . . .	15
		Under 2 years . . . . .	18
		Under 5 years . . . . .	18
		All ages . . . . .	20

### NATIVITY.

United States . . . . . 518

Ireland . . . . . 160

England . . . . . 24

Scotland . . . . . 9

Germany . . . . . 7

British America . . . . . 43

Italy . . . . . 9

Other Countries . . . . . 23

Unknown . . . . . 10

### PARENTAGE.

United States . . . . . 166

Irish . . . . . 20

English . . . . . 12

Scotch . . . . . 26

German . . . . . 40

British American . . . . . 17

Italian . . . . . 73

Other Countries . . . . . 63

Mixed . . . . . 70

Unknown . . . . . 54

Still-births during the month . . . . . 54

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for October, 1892.	Total Mortality for October, 1891.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	5	6											1	1		2	1					5		
CROUP . . . . .	6	6			1	1	1			3	3											3	3	
CARCUNCLE . . . . .		1																						
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	17	35	3	6	5	3				17												10	7	
CEREBRO-SPINAL MENINGITIS . . . . .		4																						
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2	7		1						1							1					2		
DYSENTERY . . . . .	1	4																					1	
DIPHTHERIA . . . . .	35	27			1	3	6	4	2	16	15	2	1	1								15	20	
ERYSIPELAS . . . . .	2				1					1					1							1	1	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	1														1								1	
MEASLES . . . . .	1				1					1												1		
PURPURA . . . . .																								
PUERPERAL FEVER . . . . .		1																						
PYŒMIA . . . . .																								
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1	3							1	1													1	
SCARLATINA . . . . .	24	2				4	5	4	2	15	9											13	11	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1				1					1												1		
SYPHILIS . . . . .		1																						
SEPTICŒMIA . . . . .	3	1											1			1	1					1	2	
TONSILLITIS . . . . .	2										1			1									2	
TYPHOID FEVER . . . . .	29	29									1	5	15	3	2	1	1		1			17	12	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .																								
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	3	4											1	1			1					1	2	
II. CONSTITUTIONAL.																								
CANCER . . . . .	42	13													4	12	13	6	6	1		17	25	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	20	19		4	5	2		1	1	13	1	1		2	1		1		1			9	11	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	31	43	15	7	5	2				29		1								1		12	19	
PHTHISIS PULMONALIS . . . . .	110	109			2	2		1	3	8	2	10	38	15	15	7	8	4				51	59	
OTHER CONSTITUTIONAL DISEASES . . . . .	17	13				3				3	1	3	5	1	4							9	8	



# of October, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for October, 1892.	Total Mortality for October, 1891.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
APOPLEXY . . . . .	29	35											2		5	8	6	7	1			14	15
BRIGHT'S DISEASE . . . . .	11	14						1		1		1	2		2	2	1	2				2	9
BRONCHITIS . . . . .	48	37	7	5	5	2	2	1	1	23	2		1	1	2	5	6	3	5			21	27
HEART DISEASE . . . . .	55	77	1		1					2	2	4	7	3	7	4	11	12	3			25	59
MENINGITIS . . . . .	13	19	1		1	3	1			6	3		1	2	1							8	5
NEPHRITIS . . . . .	11	17	1							1	1		1	2		2	3	1				7	4
PLEURISY . . . . .	3													1	1			1				2	1
PNEUMONIA . . . . .	45	45	1	4	1	3	1		1	11	1	1	7	2	5	10	3	1	4			21	24
OTHER LOCAL DISEASES . . . . .	130	144	13	6	16	5	1	2	1	44	3	4	13	13	7	21	9	11	5			65	65
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .	1	1	1							1												1	
INANITION . . . . .	8	7	4	1	3					8												5	3
OLD AGE . . . . .	18	19																5	11	2		7	11
PREMATURE BIRTH . . . . .	13	15	13							13												8	5
PUERP'L DISEASES (not including Puerp'l Fever)	2	3											1	1									2
OTHER DEVELOPMENTAL DISEASES . . . . .	16	19	13			1				14						1	1					6	10
V. VIOLENT.																							
ACCIDENTAL . . . . .	37	42			1		1		1	3	2	3	9	5	7	4	2	2				29	8
HOMICIDAL . . . . .																							
SUICIDAL . . . . .	8	1											1	3	2	2						7	1
OTHER VIOLENT CAUSES . . . . .	1	1													1								1
UNKNOWN CAUSES . . . . .	1	2	1							1												1	
TOTAL FROM ALL CAUSES . . . . .	803	826	74	34	50	34	18	14	13	237	47	34	106	69	75	83	61	56	32	3		396	497
TOTAL FROM ZYMOTIC DISEASES . . . . .	133	151																					
INCLUDING TUBERCULAR DISEASES . . . . .	292	286	3	7	10	11	12	8	5	56	29	7	19	9	3	4	4	1	1				
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	220	197	15	11	12	9		2	4	53	4	15	43	25	32	20	15	10	2	1		98	122
" " LOCAL do. . . . .	345	388	24	15	24	13	5	4	3	88	12	9	33	26	30	52	39	38	18			165	180
" " DEVELOPMENTAL do. . . . .	58	64	21	1	3	1				36			1	1		1	1	5	11	2		26	32
" " VIOLENT CAUSES . . . . .	46	44			1		1		1	3	2	3	10	8	10	6	2	2				36	10

## Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of October, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING OCTOBER, 1892.			CASES REPORTED DURING OCTOBER, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	144	....	Diphtheria . . . . .	73	....
Measles . . . . .	64	....	Measles . . . . .	6	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	188	....	Scarlatina . . . . .	67	....
Typhoid Fever . . . . .	148	..	Typhoid Fever . . . . .	246	1
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of October, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.02	58	56	N.W.	.00	Mean Barometer, 29.94.
2	30.21	48	56	N.W.	.00	Highest Barometer, 30.46, on the 12th.
3	29.94	40	58	N.W.	T	Lowest Barometer, 29.50, on the 5th.
4	29.52	60	76	N.W.	0.12	Monthly Range of Barometer, 0.96.
5	29.57	48	82	N.W.	1.72	Mean Temperature, 0.53.
6	29.77	46	60	W.	.00	Highest Temperature, 78.0, on the 14th.
7	29.83	58	62	S.W.	.00	Lowest Temperature, 36.0, on the 25th.
8	29.77	64	86	S.W.	.60	Monthly Range of Temperature, 42.0.
9	29.70	56	72	N.W.	0.05	Greatest Daily Range of Temperature, 23.0 on the 14th.
10	30.04	51	69	W.	0.01	Least Daily Range of Temperature, 4.0 on the 15th.
11	30.12	57	64	W.	.00	Mean Daily Range of Temperature, 15.0.
12	30.44	45	68	N.	.00	Mean Daily Dew-point, 40.4.
13	30.36	57	76	S.W.	.00	Mean Daily Relative Humidity, 67.3.
14	30.08	66	62	W.	.00	Prevailing Direction of Wind, W.
15	30.11	57	73	E.	.00	Total Movement of Wind, 8,273 Miles.
16	29.93	59	92	S.W.	0.25	Highest Velocity of Wind and Direction, 31 miles N.W. on the 30th.
17	30.10	51	78	N.E.	.00	Number of Foggy Days, 0.
18	30.12	54	80	S.W.	.00	Number of Clear Days, 15.
19	29.82	60	68	S.W.	T	Number of Fair Days, 7.
20	30.00	52	56	N.W.	.00	Number of Cloudy Days, 9.
21	29.98	51	64	W.	.00	Total Number of Days on which Rain or Snow fell, 7.
22	29.96	55	56	W.	.00	Depth of Unmelted Snow on ground at end of month, 0.
23	29.74	56	56	W.	.00	Dates of Auroras, 0.
24	29.85	47	58	N.W.	.00	Dates of Solar Halos, 28th.
25	29.85	46	68	W.	.00	Dates of Lunar Halos, 2d, 4th, 7th.
26	29.74	45	88	N.W.	0.07	Thunder storm, 0.
27	29.85	47	65	W.	.00	Mean Max. Temp., 60.0.
28	29.86	47	66	N.W.	.00	Dates of Frosts, 27th, 31st.
29	29.64	48	62	W.	0.09	Mean Min. Temp., 45.0.
30	29.98	47	68	W.	.00	
31	30.20	46	58	W.	.00	
TOTALS .....	—	—	—	—	2.31	
MEANS .....	29.94	53	67.3	W.	.074	

## COMPARATIVE TEMPERATURE.

1871 . . . . .	54
1872 . . . . .	52
1873 . . . . .	53
1874 . . . . .	53
1875 . . . . .	49
1876 . . . . .	48
1877 . . . . .	51
1878 . . . . .	55
1879 . . . . .	56
1880 . . . . .	51
1881 . . . . .	53
1882 . . . . .	55
1883 . . . . .	47
1884 . . . . .	52
1885 . . . . .	51
1886 . . . . .	52
1887 . . . . .	51
1888 . . . . .	49
1889 . . . . .	48
1890 . . . . .	51
1891 . . . . .	52
1892 . . . . .	53

## COMPARATIVE PRECIPITATIONS.

	Inches.
1871 . . . . .	5.88
1872 . . . . .	4.85
1873 . . . . .	5.33
1874 . . . . .	1.39
1875 . . . . .	4.99
1876 . . . . .	1.66
1877 . . . . .	8.84
1878 . . . . .	6.76
1879 . . . . .	0.01
1880 . . . . .	3.15
1881 . . . . .	2.84
1882 . . . . .	2.29
1883 . . . . .	6.40
1884 . . . . .	3.17
1885 . . . . .	5.71
1886 . . . . .	3.27
1887 . . . . .	2.55
1888 . . . . .	3.38
1889 . . . . .	3.31
1890 . . . . .	5.63
1891 . . . . .	5.66
1892 . . . . .	2.31

Average mean temperature for 21 years, 51.6.

Average mean precipitation for 21 years, 4.19.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Mortality for the month of November, 1892.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of November, 1892, . . . . . 895  
Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 22.86

Total number . . . . . 895

### SEX.

Males . . . . . 470

Females . . . . . 425

### CONDITION.

Married . . . . . 273

Single . . . . . 491

Widows . . . . . 82

Widowers . . . . . 42

Unknown . . . . . 7

### COLOR.

White . . . . . 873

Colored . . . . . 22

Total deaths of children { Under 1 year . . . . . 155  
Under 2 years . . . . . 210  
Under 5 years . . . . . 260

Diarrhœal diseases { Under 1 year . . . . . 3  
Under 2 years . . . . . 5  
Under 5 years . . . . . 5  
All ages . . . . . 12

### NATIVITY.

United States . . . . . 589

Ireland . . . . . 174

England . . . . . 22

Scotland . . . . . 8

Germany . . . . . 19

British America . . . . . 47

Italy . . . . . 11

Other Countries . . . . . 17

Unknown . . . . . 8

### PARENTAGE.

United States . . . . . 205

Irish . . . . . 325

English . . . . . 26

Scotch . . . . . 11

German . . . . . 28

British American . . . . . 40

Italian . . . . . 23

Other Countries . . . . . 67

Mixed . . . . . 88

Unknown . . . . . 82

Still-births during the month . . . . . 57

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for November, 1892.	Total Mortality for November, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	5	9											1	1		2	1						4	1
CROUP . . . . .	12	7			1	2	2	3		8	4											4	8	
CARCUNCLE . . . . .	1																1					1		
CHOLERA MORBUS . . . . .	1																	1					1	
CHOLERA INFANTUM . . . . .	3	4	1			2				3												2	1	
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	4	5	1	1						2			1				1					2	2	
DYSENTERY . . . . .	4	2													1	2			1			3	1	
DIPHTHERIA . . . . .	46	41			2	8	5	7	3	25	16	3	2									19	27	
ERYSIPELAS . . . . .	1	1	1							1												1		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	2														1				1				2	
MEASLES . . . . .	4				1		1	1		3	1											2	2	
PURPURA . . . . .		1																						
PUERPERAL FEVER . . . . .	1	1											1										1	
PYÆMIA . . . . .	1													1								1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1	4													1								1	
SCARLATINA . . . . .	26	5	1		1	3	3	3	2	13	11	2										14	12	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	3	1	1	2						3												1	2	
SYPHILIS . . . . .	1	2											1									1		
SEPTICÆMIA . . . . .																								
TONSILLITIS . . . . .	2								1	1				1								2		
TYPHOID FEVER . . . . .	18	15										3	8	5	1	1						11	7	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	5		1		1				2													2	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	2	3											1		1							1	1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	27	28												2	6	8	8	2	1			9	18	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	10	16		1	3	4			1	9	1											4	6	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	21	22	6	4	5	4	1			20									1			8	13	
PHTHISIS PULMONALIS . . . . .	125	88		1	2	1				4	2	16	47	24	17	8	5	2				58	67	
OTHER CONSTITUTIONAL DISEASES . . . . .	24	18	2		2	1		1		6	1	2	3	9	1		2					15	9	



of November, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for November, 1892.	Total Mortality for November, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	37	20				1	1		1	3			1	6	7	5	8	6	1			19	18	
Bright's Disease . . . . .	21	14			3				3	1		1	2	3	4	4	3					14	7	
Bronchitis . . . . .	54	30	9	2	7	8	1			27	1		5	1	6	3	7	2	2			28	26	
Heart Disease . . . . .	91	63	1			1			2	3	12	6	9	8	16	22	17	6				52	39	
Meningitis . . . . .	8	17	2	1	1	2	1			7			1									1	7	
Nephritis . . . . .	16	15		1				1		2			3	3	2	3	2	1				11	5	
Pleurisy . . . . .	1	1											1										1	
Pneumonia . . . . .	83	80	1	5	4	7	2	2	1	22	3	1	5	10	8	14	10	7	3			43	40	
OTHER LOCAL DISEASES . . . . .	115	121	16	1	8	7	2			34	1	4	8	11	10	18	9	14	5	1		68	47	
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	4	1	4							4												2	2	
Inanition . . . . .	10	14	6	2		2				10												4	6	
Old Age . . . . .	16	26															4	11	1			6	10	
Premature Birth . . . . .	24	13	24							24												10	14	
Puerp'l Diseases (not including Puerp'l Fever)	1	2										1											1	
OTHER DEVELOPMENTAL DISEASES . . . . .	19	27	16							16							1	1	1			15	4	
V. VIOLENT.																								
Accidental . . . . .	37	29	1			1		2	1	5	1	3	5	8	7	4	3	1				27	10	
Homicidal . . . . .	2	1									1	1										1	1	
Suicidal . . . . .	7	3											2	1	2	1	1					5	2	
OTHER VIOLENT CAUSES . . . . .																								
UNKNOWN CAUSES . . . . .	2	2						1		1												1	1	
TOTAL FROM ALL CAUSES . . . . .	895	795	93	22	40	55	19	21	10	200	47	37	103	91	80	91	82	64	37	3		470	425	
TOTAL FROM ZYMOTIC DISEASES . . . . .	140	106																						
INCLUDING TUBERCULAR DISEASES . . . . .	300	154	5	4	5	16	11	14	6	61	32	8	15	9	4	5	3	2	1			69	71	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	207	172	8	6	12	10	1	1	1	39	4	18	50	35	24	16	15	4	2			94	113	
" " LOCAL do. . . . .	426	399	29	10	23	26	7	3	2	100	9	7	30	37	43	65	59	52	22	2		236	190	
" " DEVELOPMENTAL do. . . . .	74	83	50	2		2				54			1				1	5	12	1		37	37	
" " VIOLENT CAUSES . . . . .	46	33	1			1		2	1	5	2	4	7	9	9	5	4	1				33	13	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of November, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING NOVEMBER, 1892.			CASES REPORTED DURING NOVEMBER, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	185	....	Diphtheria . . . . .	108	....
Measles . . . . .	241	....	Measles . . . . .	50	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	228	....	Scarlatina . . . . .	136	....
Typhoid Fever . . . . .	89	....	Typhoid Fever . . . . .	95	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.  
For the month of November, 1892. as reported by J. W. SMITH, Observer and Local  
Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.18	50	70	N.E.	.00	Mean Barometer, 30.05.
2	30.20	45	90	E.	0.20	Highest Barometer, 30.46, on the 27th.
3	29.88	46	82	W.	0.39	Lowest Barometer, 29.51, on the 5th.
4	29.73	47	69	W.	T	Monthly Range of Barometer, 0.95.
5	29.68	34	84	N.W.	0.15	Mean Temperature, 41.
6	30.19	36	52	N.W.	.00	Highest Temperature, 66.0, on the 8th.
7	30.15	48	76	S.	T	Lowest Temperature, 20.0, on the 24th.
8	30.02	56	71	S.W.	0.10	Monthly Range of Temperature, 46.0.
9	30.38	42	58	W.	.00	Greatest Daily Range of Temperature, 23.0 on the 7th.
10	29.85	40	96	N.E.	1.66	Least Daily Range of Temperature, 3.0 on the 27th.
11	30.06	35	58	N.W.	.00	Mean Daily Range of Temperature, 12.0.
12	30.12	35	68	W.	.00	Mean Daily Dew-point, 33.0.
13	30.36	39	76	W.	.00	Mean Daily Relative Humidity, 74.0.
14	30.34	47	80	S.	.00	Prevailing Direction of Wind, W.
15	30.19	49	96	E.	0.03	Total Movement of Wind, 9,049 Miles.
16	29.74	54	92	E.	1.08	Highest Velocity of Wind and Direction, 42 miles S.E. on the 18th.
17	30.09	57	80	S.	.00	Number of Foggy Days, 0.
18	29.81	53	90	S.E.	0.20	Number of Clear Days, 8.
19	29.82	45	65	W.	0.04	Number of Fair Days, 9.
20	30.11	40	82	N.W.	.00	Number of Cloudy Days, 13.
21	30.08	40	68	W.	T	Total Number of Days on which Rain or Snow fell, 12.
22	29.90	37	58	W.	.00	Depth of unmelted Snow on ground at end of month, 2 in.
23	29.79	29	58	W.	.00	Dates of Auroras, none.
24	29.80	26	58	W.	.00	Dates of Solar Halos, 21st.
25	30.01	32	61	N.W.	.00	Dates of Lunar Halos, 9th.
26	30.26	34	72	N.W.	.00	Thunder storm, none.
27	30.45	36	68	N.	T	Mean Max. Temp., 47.0.
28	30.28	36	96	N.E.	0.07	Dates of Frosts, 0.
29	30.09	34	86	N.	0.31	Mean Min. Temp., 35.0.
30	29.84	30	95	N.	0.22	
TOTALS .....	—	—	—	—	4.45	
MEANS .....	30.05	41	74	W.	.148	
						COMPARATIVE TEMPERATURE.
						1871 . . . . . 37
						1872 . . . . . 40
						1873 . . . . . 33
						1874 . . . . . 41
						1875 . . . . . 34
						1876 . . . . . 40
						1877 . . . . . 43
						1878 . . . . . 40
						1879 . . . . . 39
						1880 . . . . . 37
						1881 . . . . . 42
						1882 . . . . . 38
						1883 . . . . . 42
						1884 . . . . . 41
						1885 . . . . . 44
						1886 . . . . . 43
						1887 . . . . . 42
						1888 . . . . . 45
						1889 . . . . . 45
						1890 . . . . . 42
						1891 . . . . . 41
						1892 . . . . . 41
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 6.42
						1872 . . . . . 3.66
						1873 . . . . . 8.34
						1874 . . . . . 2.85
						1875 . . . . . 5.47
						1876 . . . . . 11.03
						1877 . . . . . 9.62
						1878 . . . . . 8.94
						1879 . . . . . 2.97
						1880 . . . . . 2.30
						1881 . . . . . 3.73
						1882 . . . . . 1.20
						1883 . . . . . 2.08
						1884 . . . . . 3.03
						1885 . . . . . 5.78
						1886 . . . . . 3.59
						1887 . . . . . 2.22
						1888 . . . . . 4.97
						1889 . . . . . 4.91
						1890 . . . . . 0.97
						1891 . . . . . 2.35
						1892 . . . . . 4.45

Average mean temperature for 22 years, 40.0.

Average mean precipitation for 22 years, 4.59.

\*T indicates trace of precipitation.

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

Statement of Mortality for the month of December, 1892.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of December, 1892, . . . . . 1000  
Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 25.55

Total number . . . . .	1000
SEX.	
Males . . . . .	489
Females . . . . .	511
CONDITION.	
Married . . . . .	313
Single . . . . .	528
Widows . . . . .	109
Widowers . . . . .	33
Unknown . . . . .	17
COLOR.	
White . . . . .	975
Colored . . . . .	25

Total deaths of children	Under 1 year . . . . .	161
	Under 2 years . . . . .	218
	Under 5 years . . . . .	292
Diarrhoeal diseases	Under 1 year . . . . .	2
	Under 2 years . . . . .	2
	Under 5 years . . . . .	3
	All ages . . . . .	5

NATIVITY.	
United States . . . . .	606
Ireland . . . . .	246
England . . . . .	31
Scotland . . . . .	8
Germany . . . . .	11
British America . . . . .	56
Italy . . . . .	2
Other Countries . . . . .	21
Unknown . . . . .	19
PARENTAGE.	
United States . . . . .	234
Irish . . . . .	396
English . . . . .	24
Scotch . . . . .	10
German . . . . .	21
British American . . . . .	54
Italian . . . . .	15
Other Countries . . . . .	80
Mixed . . . . .	88
Unknown . . . . .	78
Still-births during the month . . . . .	54

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for December, 1892.	Total Mortality for December, 1891.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	8												4	3							3	4	
CROUP . . . . .	12	13			2	3	1	2	1	9	3											9	3	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .		1																						
CEREBRO-SPINAL MENINGITIS . . . . .	1	1										1										1		
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	3	1						1		1				1	1							1	2	
DYSENTERY . . . . .	2			1	1					2												1	1	
DIPHTHERIA . . . . .	52	35			1	10	14	12	1	38	11	2	1									24	28	
ERYSIPELAS . . . . .	5	1	2							2				1	1	1						3	2	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	1	13													1								1	
MEASLES . . . . .	3				2	1				3												3		
PURPURA . . . . .	1	2	1							1												1		
PUERPERAL FEVER. . . . .	4	2											1	3									4	
PYŒMIA . . . . .	1	1											1										1	
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1			1						1												1		
SCARLATINA . . . . .	25	17			1	1	4	4	4	14	8	2	1									12	13	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .																								
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	6	3										1	1		4							1	5	
TONSILLITIS. . . . .																								
TYPHOID FEVER. . . . .	15	16										1	8	2	3		1					8	7	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	5			2					2												1	1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	31	29										1	2	1	8	6	9	4				9	22	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	23	9	1	3	2	8	2	1	1	18	3			1	1							12	11	
MARASMUS, SCROFULA AND TABES MESENTERICA	12	23	4	1	1	1		1		8				1	2		1					9	3	
PHthisis PULMONALIS . . . . .	116	143		1				1	1	3		10	40	26	21	9	5	2				55	61	
OTHER CONSTITUTIONAL DISEASES . . . . .	20	19		1		1	1			3		3	3	4	4	3	3					9	11	



# of December, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for December, 1892.	Total Mortality for December, 1891.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	40	37												2	4	10	8	12	2	2		23	17	
BRIGHT'S DISEASE . . . . .	17	12										1	1	5	2	2	2	4				7	1	
BRONCHITIS . . . . .	51	90	6	4	8	6	1		1	26	1		2		2	1	9	10				21	30	
HEART DISEASE . . . . .	77	80	2						1	3	1	1	9	5	13	11	15	14	5			43	34	
MENINGITIS . . . . .	25	25	2	3	5	6	1			17	2	1		3	1			1				13	12	
NEPHRITIS . . . . .	21	20									1	1	3	4	4		5	2	1			9	12	
PLEURISY . . . . .	3	2		1						1		1			1							2	1	
PNEUMONIA . . . . .	144	223	8	4	17	11	4	3	5	62	5	2	13	16	15	12	15	9	4	1		73	71	
OTHER LOCAL DISEASES . . . . .	139	142	10	6	6	7	1	1		31	3	2	9	26	17	16	16	10	5	1		69	70	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	2	1	2							2												1	1	
INANITION . . . . .	12	15	9	1						10			1			1						5	7	
OLD AGE . . . . .	24	45															2	7	11	4		5	19	
PREMATURE BIRTH . . . . .	22	24	21		1					22												12	10	
PUERP'L DISEASES (not including Puerp'l Fever)	6	4											4	1	1								6	
OTHER DEVELOPMENTAL DISEASES . . . . .	25	22	16	1	1					18		1			1	2	1	2				12	13	
V. VIOLENT.																								
ACCIDENTAL . . . . .	35	37		1		1	2	1		5	1	2	3	4	11	2	3	3	1			24	11	
HOMICIDAL . . . . .	1	2																	1				1	
SUICIDAL . . . . .	10	7											1	3	3	3						7	3	
OTHER VIOLENT CAUSES . . . . .	3												1	1	1								3	
UNKNOWN CAUSES . . . . .		3																						
TOTAL FROM ALL CAUSES . . . . .	1000	1133	84	29	48	57	32	27	15	292	39	33	107	115	122	79	92	80	33	8		489	511	
TOTAL FROM ZYMOTIC DISEASES . . . . .	141	119																						
INCLUDING TUBERCULAR DISEASES . . . . .	319	308	3	2	7	16	20	19	6	73	22	7	13	11	13	1	1					69	72	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	202	223	5	6	3	10	3	3	2	32	3	14	47	34	33	18	15	6				94	108	
" " LOCAL do. . . . .	517	631	28	18	36	30	7	4	7	130	13	9	37	61	59	52	70	62	20	4		260	257	
" " DEVELOPMENTAL do. . . . .	91	111	48	2	2					52		1	5	1	2	3	3	9	11	4		35	56	
" " VIOLENT CAUSES . . . . .	49	46		1		1	2	1		5	1	2	5	8	15	5	3	3	2			31	18	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of December, 1892, and for the corresponding month in 1891.

CASES REPORTED DURING DECEMBER, 1892.			CASES REPORTED DURING DECEMBER, 1891.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	175	....	Diphtheria . . . . .	127	....
Measles . . . . .	359	1	Measles . . . . .	54	15
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	299	....	Scarlatina . . . . .	261	3
Typhoid Fever . . . . .	43	..	Typhoid Fever . . . . .	74	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of December, 1892, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.74	34	78	N.W.	0.02	Mean Barometer, 29.98.
2	29.70	38	68	N.W.	.00	Highest Barometer, 30.52, on the 12th.
3	29.64	34	69	W.	0.01	Lowest Barometer, 29.41, on the 25th.
4	29.68	38	67	W.	T	Monthly Range of Barometer, 1.11.
5	30.05	32	60	N.W.	.00	Mean Temperature, 29.9.
6	30.05	30	78	W.	0.04	Highest Temperature, 48.0, on the 9th.
7	30.01	38	70	W.	0.08	Lowest Temperature, 0.0, on the 24th.
8	29.80	41	92	E.	0.30	Monthly Range of Temperature, 48.0.
9	29.96	43	72	N.W.	0.31	Greatest Daily Range of Temperature, 20.0 on the 27th.
10	30.12	36	82	N.W.	0.02	Least Daily Range of Temperature, 7.0 on the 1st.
11	30.30	34	77	W.	.00	Mean Daily Range of Temperature, 12.8.
12	30.47	34	56	W.	.00	Mean Daily Dew-point, 20.1.
13	30.38	34	66	W.	.00	Mean Daily Relative Humidity, 68.0.
14	30.04	36	86	N.	0.26	Prevailing Direction of Wind, W.
15	30.05	36	85	W.	.00	Total Movement of Wind, 8,958 Miles.
16	30.10	36	72	W.	.00	Highest Velocity of Wind and Direction, 35 miles W. on the 22d.
17	29.93	36	70	W.	T	Number of Foggy Days, 0.
18	29.97	28	57	N.W.	T	Number of Clear Days, 14.
19	29.85	38	72	S.W.	.00	Number of Fair Days, 10.
20	29.84	27	70	N.W.	0.08	Number of Cloudy Days, 7.
21	30.18	23	62	W.	.00	Total Number of Days on which Rain or Snow fell, 9.
22	30.06	23	52	W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	29.79	21	64	W.	.00	Dates of Auroras, 5th.
24	29.58	6	73	W.	T	Dates of Solar Halos.
25	29.54	18	56	W.	T	Dates of Lunar Halos, 2d, 4th, 5th, 7th, 8th, 10th, 12th, 20th, 29th, 30th, & 31st.
26	29.78	11	53	W.	.00	Thunder storm, .
27	29.98	18	60	W.	.00	Mean Max. Temp., 36.3.
28	30.09	20	51	N.	.00	Dates of Frosts, .
29	30.27	27	58	N.	.00	Mean Min. Temp., 23.5.
30	30.35	29	70	N.W.	.00	COMPARATIVE TEMPERATURE.
31	30.20	30	60	S.W.	.00	1871 . . . . . 28
TOTALS . . . . .	—	—	—	—	1.12	1872 . . . . . 24
MEANS . . . . .	29.98	29.9	68.0	W.	.087	1873 . . . . . 31
						1874 . . . . . 31
						1875 . . . . . 29
						1876 . . . . . 22
						1877 . . . . . 35
						1878 . . . . . 30
						1879 . . . . . 32
						1880 . . . . . 26
						1881 . . . . . 38
						1882 . . . . . 30
						1883 . . . . . 29
						1884 . . . . . 33
						1885 . . . . . 33
						1886 . . . . . 29
						1887 . . . . . 32
						1888 . . . . . 36
						1889 . . . . . 38
						1890 . . . . . 26
						1891 . . . . . 40
						1892 . . . . . 30
						1871 . . . . . 3.38
						1872 . . . . . 3.29
						1873 . . . . . 5.64
						1874 . . . . . 2.14
						1875 . . . . . 0.75
						1876 . . . . . 3.71
						1877 . . . . . 1.32
						1878 . . . . . 6.76
						1879 . . . . . 5.36
						1880 . . . . . 3.42
						1881 . . . . . 3.80
						1882 . . . . . 2.65
						1883 . . . . . 3.71
						1884 . . . . . 4.46
						1885 . . . . . 2.09
						1886 . . . . . 3.66
						1887 . . . . . 2.71
						1888 . . . . . 4.38
						1889 . . . . . 1.83
						1890 . . . . . 3.92
						1891 . . . . . 3.68
						1892 . . . . . 1.12

Average mean temperature for 22 years, 31.0.

Average mean precipitation for 22 years, 3.35.

\*T indicates trace of precipitation.

# SUMMARY OF DEATHS IN BOSTON.

With Principal Causes, for the year 1892. Compared with those of 1891.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

	1892.	1891.		1892.	1891.
Total No. of deaths from all causes . .	11,236	10,571	Influenza . . . . .	97	31
Population (estimated) . . . . .	469,647	459,062	Intermittent Fever . . . . .	—	2
Annual death rate per 1000 inhabitants	23.92	23.02	Measles . . . . .	19	21
Total No. from Zymotic diseases . .	2,014	1,615	Purpura . . . . .	3	6
Percentage of deaths from Zymotic dis-			Puerperal Fever . . . . .	28	18
eases to total mortality . . . . .	17.92	15.27	Pyæmia . . . . .	9	15
Total No. of Still-births . . . . .	633	614	Remittent Fever . . . . .	1	1
Total deaths of children under 1 year .	2,466	2,552	Rheumatism . . . . .	43	23
“   “   “   “   2 years . . . . .	3,086	3,135	Scarlatina . . . . .	262	64
“   “   “   “   5 years . . . . .	3,735	3,608	Small Pox . . . . .	—	—
Percentage of deaths under 5 years to			Syphilis (congenital) . . . . .	12	21
total mortality . . . . .	33.24	34.13	Syphilis . . . . .	3	5
Total No. of deaths from diarrhœal dis-			Septicæmia . . . . .	28	29
eases, under 5 years . . . . .	621	667	Tonsillitis . . . . .	9	3
Total No. of deaths from diarrhœal dis-			Typhoid Fever . . . . .	137	154
eases, all ages . . . . .	693	755	Typhus Fever . . . . .	—	—
Percentage of deaths from diarrhœal dis-			Whooping Cough . . . . .	45	39
eases to total mortality . . . . .	6.16	7.14	Yellow Fever . . . . .	—	—
Alcoholism . . . . .	72	65	Other Zymotic Diseases . . . . .	19	16
Croup . . . . .	67	53	Cancer . . . . .	328	317
Carbuncle . . . . .	4	2	Phthisis Pulmonalis . . . . .	1,414	1,352
Cholera Morbus . . . . .	23	20	Bright's Disease . . . . .	158	148
Cholera Infantum . . . . .	563	597	Bronchitis . . . . .	557	551
Cerebro Spinal Meningitis . . . . .	12	21	Heart Disease . . . . .	890	764
Diarrhœa . . . . .	77	90	Pneumonia . . . . .	1,122	1,149
Dysentery . . . . .	30	48	Old Age . . . . .	258	289
Diphtheria . . . . .	414	232	Violent Deaths . . . . .	519	472
Erysipelas . . . . .	37	39			





# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of January, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of January, 1893, . . . . .	1026
Population estimated at 469,647.	Rate per 1,000 inhabitants, 26.21

Total number . . . . . 1026

### SEX.

Males . . . . . 522

Females . . . . . 504

### CONDITION.

Married . . . . . 345

Single . . . . . 522

Widows . . . . . 114

Widowers . . . . . 33

Unknown . . . . . 12

### COLOR.

White . . . . . 997

Colored . . . . . 29

Total deaths of children	Under 1 year . . . . .	159
	Under 2 years . . . . .	219
	Under 5 years . . . . .	297

Diarrhœal diseases	Under 1 year . . . . .	1
	Under 2 years . . . . .	2
	Under 5 years . . . . .	2
	All ages . . . . .	7

### NATIVITY.

United States . . . . . 655

Ireland . . . . . 219

England . . . . . 26

Scotland . . . . . 13

Germany . . . . . 20

British America . . . . . 54

Italy . . . . . 3

Other Countries . . . . . 29

Unknown . . . . . 7

### PARENTAGE.

United States . . . . . 283

Irish . . . . . 356

English . . . . . 23

Scotch . . . . . 15

German . . . . . 35

British American . . . . . 42

Italian . . . . . 15

Other Countries . . . . . 80

Mixed . . . . . 81

Unknown . . . . . 96

Still-births during the month . . . . . 54

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for January, 1893.	Total Mortality for January, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	5	7											1	3			1						4	1
CROUP . . . . .	9	7			1	2	1	4	1	9												8	1	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	1	1							1													1	
CEREBRO-SPINAL MENINGITIS . . . . .	2	2									1	1										1	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	6	2				1				1				1	1	3						2	4	
DYSENTERY . . . . .																								
DIPHTHERIA . . . . .	49	28			3	9	9	12	6	39	8	2										28	21	
ERYSIPELAS . . . . .	8	2	1	1						2			1	1		2	1	1				4	4	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	1	63																	1			1		
MEASLES . . . . .	2	1			1					1	1											1	1	
PURPURA . . . . .	3		1			1				2							1					1	2	
PUERPERAL FEVER . . . . .	4	1											1	3									4	
PTŒMIA . . . . .	1															1						1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	1	3														1							1	
SCARLATINA . . . . .	26	29				8	4	4	5	21	2	3										12	14	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1				1					1													1	
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	3	1						1		1			1	1								1	2	
TONSILLITIS . . . . .		1																						
TYPHOID FEVER . . . . .	13	2					1			1		2	2	3	2	1	2					8	5	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	9			1					1													1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	29	19												4	6	15	3	1				10	19	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	17	16	1	4	3	4		1		13	2		1			1						10	7	
MARASMUS, SCROFULA AND TABES MESENTERICA	16	24	7	2		3		1		13			1	1			1					6	10	
PHTHISIS PULMONALIS . . . . .	132	150	1	2					1	4		7	43	29	18	19	7	4	1			67	65	
OTHER CONSTITUTIONAL DISEASES . . . . .	13	17	1	1					1	3		1	2	4		1	1	1				4	9	



# SANITARY STATISTICS OF BOSTON, MASS.

JANUARY, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

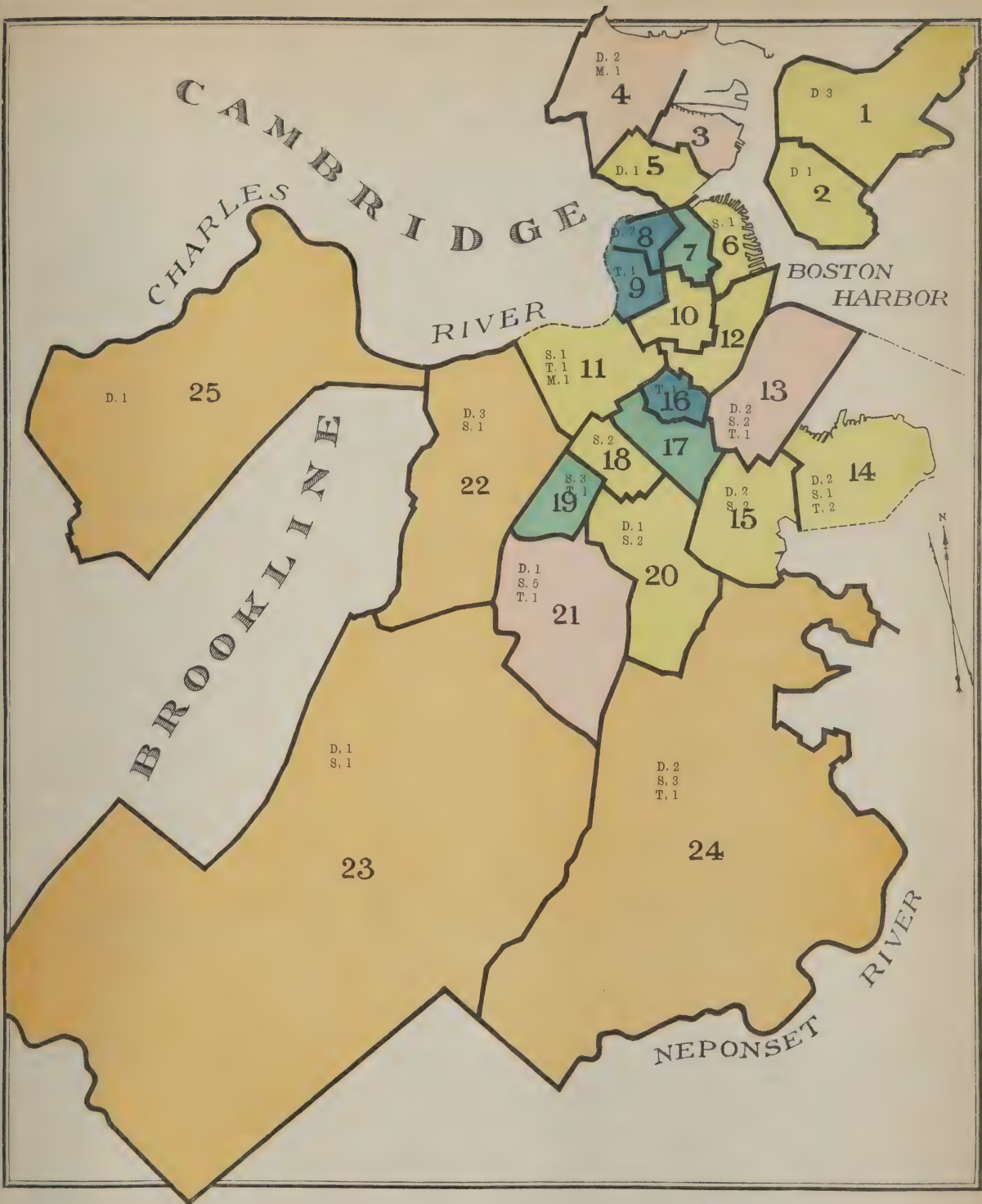
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

- D—Diphtheria.  
S—Scarlatina.  
T—Typhoid Fever.  
M—Measles.

**WARD MAP OF BOSTON,**

Arranged by density of population  
on basis of assessed polls of 1892.

CITY HOSPITAL,

- D.—25.  
S.—2.  
T.—4.  
M.—

	Under 20 inhabitants to a square acre.
	From 33 to 49 " " "
	" 52 to 80 " " "
	" 111 to 123 " " "
	" 151 to 213 " " "



# of January, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for January, 1893.	Total Mortality for January, 1892.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
ATOPLECTY . . . . .	31	34											1	2	8	5	9	3	3			15	16	
BRIGHT'S DISEASE . . . . .	18	13						1		1			1	1	2	2	6	5				10		
BRONCHITIS . . . . .	57	109	10	4	5	10	4	2		35	1					5	4	6	5	1		19	38	
HEART DISEASE . . . . .	85	84	2	1						3	2	3	6	10	14	15	13	13	5	1		46	39	
MENINGITIS . . . . .	23	38	1	1	4	4	2	1	2	15	4			2	1	1						15	8	
NEPHRITIS . . . . .	17	24				1				1				2	5	3	3	1	2			7	10	
PLEURISY . . . . .	1	6														1							1	
PNEUMONIA . . . . .	184	240	5	3	14	15	3	1	1	42	7	8	21	20	24	26	18	14	4			98	86	
OTHER LOCAL DISEASES . . . . .	138	135	15	6	5	1	3	1		31	3	6	11	10	10	22	21	14	10			69	69	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	2	1	1	1						2												1	1	
INANITION . . . . .	6	7	5	1						6												3	3	
OLD AGE . . . . .	29	42															2	8	14	5		9	20	
PREMATURE BIRTH . . . . .	21	13	18	1	1		1			21												15	6	
PUERP'L DISEASES (not including Puerp'l Fever)		3																						
OTHER DEVELOPMENTAL DISEASES . . . . .	23	21	14	2	1	1	1			19					2		2					12	11	
V. VIOLENT.																								
ACCIDENTAL . . . . .	37	26	2				2	1		5	3	2	13	3	3	5	1	1	1			29	8	
HOMICIDAL . . . . .	3	2			1					1			1	1								1	2	
SUICIDAL . . . . .	5	4											2	1	1			1				4	1	
OTHER VIOLENT CAUSES . . . . .	1	2															1						1	
UNKNOWN CAUSES . . . . .	2	1	2							2													2	
TOTAL FROM ALL CAUSES . . . . .	1026	1190	88	28	43	60	31	30	17	297	34	34	110	102	97	126	100	72	47	7		522	504	
TOTAL FROM ZYMOTIC DISEASES . . . . .	156	159																						
INCLUDING TUBERCULAR DISEASES . . . . .	299	376	3		8	21	15	21	12	80	12	7	7	12	3	5	8	1	1			72	64	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	207	226	10	8	4	7		2	2	33	2	8	47	38	24	36	12	6	1			97	110	
" " LOCAL do. . . . .	554	683	33	15	28	31	12	6	3	128	17	17	40	47	64	80	74	56	29	2		279	275	
" " DEVELOPMENTAL do. . . . .	81	87	38	5	2	1	2			48					2		4	8	14	5		40	41	
" " VIOLENT CAUSES . . . . .	46	34	2		1		2	1		6	3	2	16	5	4	5	2	1	2			34	12	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of January, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING JANUARY, 1893.			CASES REPORTED DURING JANUARY, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	152	....	Diphtheria . . . . .	102	....
Measles . . . . .	437	....	Measles . . . . .	48	....
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	282	....	Scarlatina . . . . .	290	....
Typhoid Fever . . . . .	34	..	Typhoid Fever . . . . .	25	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of January, 1893, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.86	32	80	E.-W.	0.20	Mean Barometer, 29.93. Highest Barometer, 30.58, on the 28th.
2	29.27	44	70	W.	.80	Lowest Barometer, 29.11, on the 10th.
3	29.66	26	50	W.	.00	Monthly Range of Barometer, 1.47.
4	29.80	14	58	W.	.00	Mean Temperature, 20.7.
5	29.65	22	90	N.E.	0.20	Highest Temperature, 53.0, on the 2d.
6	29.48	16	68	N.	0.50	Lowest Temperature, — 4.0, on the 11th.
7	29.88	18	57	W.	.00	Monthly Range of Temperature, 57.0.
8	29.85	14	50	N.W.	.00	Greatest Daily Range of Temperature, 29.0 on the 29th.
9	29.56	18	90	S.E.	0.16	Least Daily Range of Temperature, 7.0 on the 30th.
10	29.19	18	82	W.	0.28	Mean Daily Range of Temperature, 14.8.
11	29.74	4	74	W.	.00	Mean Daily Dew-point, 12.0.
12	29.64	7	76	W.	T	Mean Daily Relative Humidity, 71.0.
13	29.57	12	57	N.W.	T	Prevailing Direction of Wind, W.
14	30.02	14	56	W.	.00	Total Movement of Wind, 8,620 Miles.
15	29.86	14	90	N.W.	0.10	Highest Velocity of Wind and Direction, 52 miles S. on the 2d.
16	30.12	10	70	W.	0.02	Number of Foggy Days, 0.
17	30.32	10	74	N.W.	T	Number of Clear Days, 11.
18	30.34	12	70	N.W.	.00	Number of Fair Days, 9.
19	29.96	18	84	N.W.	.00	Number of Cloudy Days, 11.
20	29.88	17	66	W.	.00	Total Number of Days on which Rain or Snow fell, 17.
21	30.07	17	57	W.	.00	Depth of unmelted Snow on ground at end of month, 3.
22	30.22	18	58	N.W.	.00	Dates of Auroras.
23	30.12	23	86	S.	0.01	Dates of Solar Halos.
24	30.12	32	84	S.W.	T	Dates of Lunar Halos, 30th.
25	29.98	36	78	W.	0.07	Thunder storm, Mean Max. Temp., 28.1.
26	30.11	32	63	W.	.00	Dates of Frosts, Mean Min. Temp., 13.3.
27	30.34	28	48	N.W.	.00	COMPARATIVE TEMPERATURE.
28	30.54	19	92	N.W.	T	1871 . . . . . 26
29	30.09	32	96	N.W.	0.23	1872 . . . . . 27
30	30.25	34	51	W.	.00	1873 . . . . . 26
31	30.34	30	68	N.W.	.01	1874 . . . . . 31
TOTALS .....	—	—	—	—	—	1875 . . . . . 20
MEANS .....	29.93	20.7	71.0	W.	2.56	1876 . . . . . 30
						1877 . . . . . 23
						1878 . . . . . 28
						1879 . . . . . 24
						1880 . . . . . 35
						1881 . . . . . 22
						1882 . . . . . 26
						1883 . . . . . 25
						1884 . . . . . 24
						1885 . . . . . 27
						1886 . . . . . 26
						1887 . . . . . 26
						1888 . . . . . 20
						1889 . . . . . 36
						1890 . . . . . 32
						1891 . . . . . 31
						1892 . . . . . 28
						1893 . . . . . 21
						COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 0.92
						1872 . . . . . 2.11
						1873 . . . . . 5.76
						1874 . . . . . 4.32
						1875 . . . . . 3.68
						1876 . . . . . 1.87
						1877 . . . . . 3.33
						1878 . . . . . 7.60
						1879 . . . . . 2.79
						1880 . . . . . 3.72
						1881 . . . . . 7.21
						1882 . . . . . 3.68
						1883 . . . . . 3.59
						1884 . . . . . 6.27
						1885 . . . . . 5.33
						1886 . . . . . 7.08
						1887 . . . . . 4.86
						1888 . . . . . 2.26
						1889 . . . . . 4.11
						1890 . . . . . 2.00
						1891 . . . . . 4.39
						1892 . . . . . 4.62
						1893 . . . . . 2.56

Average mean temperature for 23 years, 27.0.

Average mean precipitation for 23 years, 4.09.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of February, 1893.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of February, 1893, . . . . . 909  
Population estimated at 469,647. . . . . Rate per 1,000 inhabitants, 23.22

Total number . . . . . 909

### SEX.

Males . . . . . 479

Females . . . . . 430

### CONDITION.

Married . . . . . 294

Single . . . . . 504

Widows . . . . . 78

Widowers . . . . . 22

Unknown . . . . . 11

### COLOR.

White . . . . . 895

Colored . . . . . 14

Total deaths of children { Under 1 year . . . . . 189  
Under 2 years . . . . . 249  
Under 5 years . . . . . 303

Diarrhœal diseases { Under 1 year . . . . . 1  
Under 2 years . . . . . 1  
Under 5 years . . . . . 1  
All ages . . . . . 8

### NATIVITY.

United States . . . . . 615

Ireland . . . . . 150

England . . . . . 17

Scotland . . . . . 6

Germany . . . . . 12

British America . . . . . 59

Italy . . . . . 12

Other Countries . . . . . 21

Unknown . . . . . 17

### PARENTAGE.

United States . . . . . 233

Irish . . . . . 280

English . . . . . 17

Scotch . . . . . 11

German . . . . . 18

British American . . . . . 64

Italian . . . . . 30

Other Countries . . . . . 72

Mixed . . . . . 92

Unknown . . . . . 92

Still-births during the month . . . . . 49

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for February, 1893.	Total Mortality for February, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	4											1	3	2		1						5	2
CROUP . . . . .	9	6				5	1		2	8		1										3	6	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	1	1		1						1												1		
CEREBRO-SPINAL MENINGITIS . . . . .	2	3		1						1			1									1	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2																2					2		
DYSENTERY . . . . .		1																						
DIPHTHERIA . . . . .	32	31		1	1	8	9	2	3	24	6	1				1						23	9	
ERYSIPELAS . . . . .	5	3											2				2	1				3	2	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	2	16						1		1									1			1	1	
MEASLES . . . . .	3			1	1	1				3												1	2	
PURPURA . . . . .		1																						
PUERPERAL FEVER . . . . .	4	3											2	1	1								4	
PYEMIA . . . . .	4			1						1			1	1	1								4	
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	2	4														1		1				1	1	
SCARLATINA . . . . .	22	20			2	4	1	4	4	15	5	2										15	7	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	3			1	1		1			3												1	2	
SYPHILIS . . . . .		1																						
SEPTICÆMIA . . . . .	5	3											1	3			1						5	
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	9	5										1	4	2	2							4	5	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	8		1				1		2												1	1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	1															1						1		
II. CONSTITUTIONAL.																								
CANCER . . . . .	23	17												2	3	11	6	1				6	17	
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	18	13		1	2	2	5	2		1	13	1	1	2			1					10	8	
MARASMUS, SCROFULA AND TABES MESENTERICA	14	13		6	3	3	1				13		1									6	8	
PHTHISIS PULMONALIS . . . . .	96	93					2				2	1	5	29	37	11	8	1	2			52	44	
OTHER CONSTITUTIONAL DISEASES . . . . .	18	14					1	1			2	2		3	3	2	2	3	1			10	8	



# SANITARY STATISTICS OF BOSTON, MASS.

## FEBRUARY, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

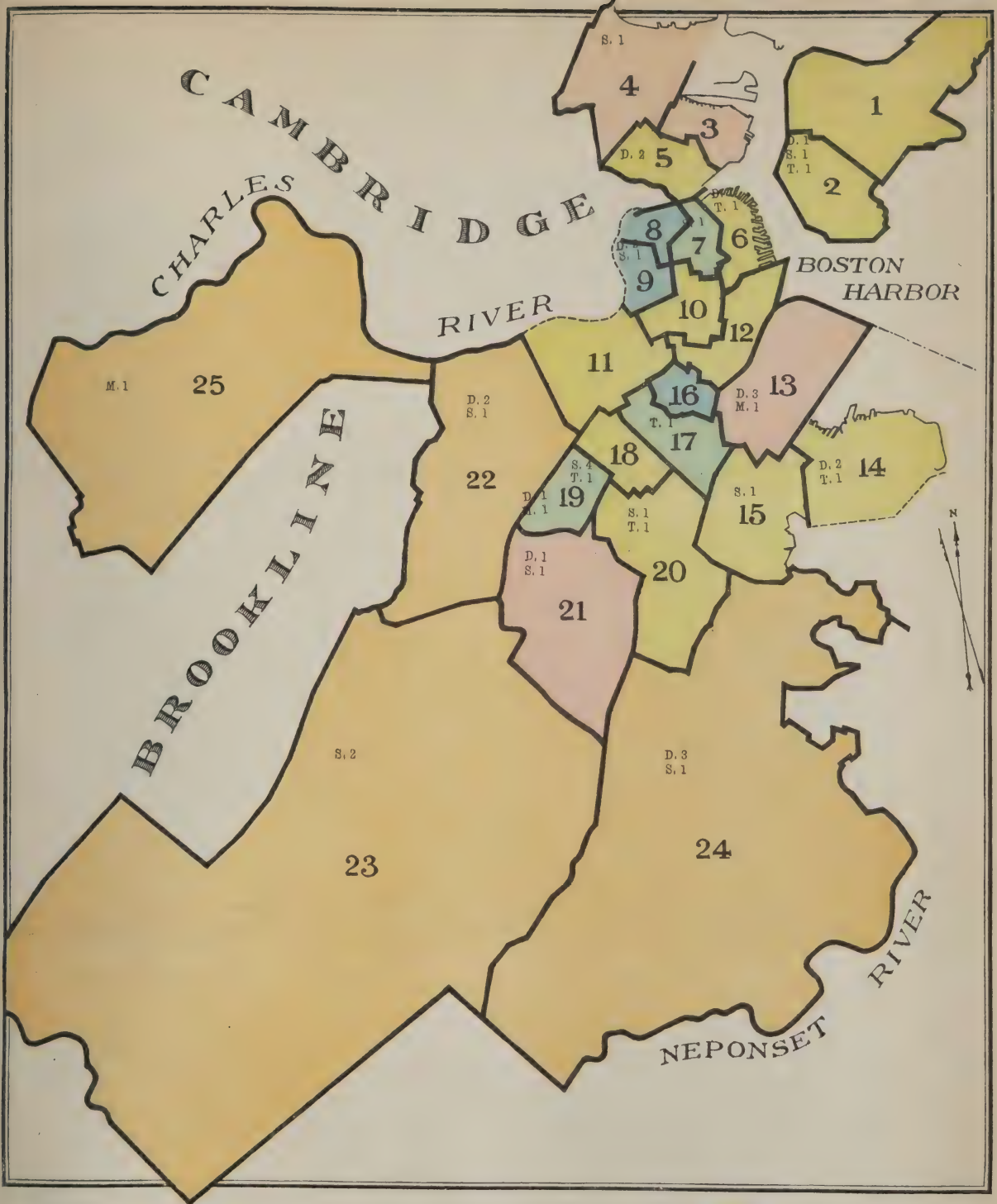
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

- D—Diphtheria.  
 S—Scarlatina.  
 T—Typhoid Fever.  
 M—Measles.

**WARD MAP OF BOSTON,**

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarlatina, Typhoid Fever and Measles.

CITY HOSPITAL, { D.—14.  
 S.—7.  
 T.—3.  
 M.—

	Under 20 inhabitants to a square acre.
	From 33 to 49 " " "
	" 52 to 80 " " "
	" 111 to 123 " " "
	" 151 to 213 " " "



of February, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.			
	Total Mortality for February, 1893.	Total Mortality for February, 1892.																	Males.	Females.				
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.			80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	
III. LOCAL.																								
Apoplexy . . . . .	30	30	1		1					2			1	1	4	4	4	9	5			19	11	
Bright's Disease . . . . .	19	7									1	2	1	2	5	2	5	1				12		
Bronchitis . . . . .	57	66	9	13	7	4	8	1		37			1	2	2	4	4	6	1			29	28	
Heart Disease . . . . .	70	75	1	1		1				3	2	6	4	11	8	16	8	11	1			37	33	
Meningitis . . . . .	28	23	1	2	4	11	5			23	1	2		1	1							15	13	
Nephritis . . . . .	24	17					1			1		1	4	2	7	3	1	3	2			14	10	
Pleurisy . . . . .	1	3																1					1	
Pneumonia . . . . .	159	120	10	6	15	15	3	3	1	53	4	2	11	21	19	17	13	13	6			89	70	
OTHER LOCAL DISEASES . . . . .	117	118	19	7	5				2	2	35	1	5	12	6	11	9	19	11	6	2		57	60
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .	2	1	2							2												2		
Inanition . . . . .	13	5	12							12					1							3	10	
Old Age . . . . .	18	18															1	5	8	4		5	13	
Premature Birth . . . . .	17	17	17							17												6	11	
Puerp'l Diseases (not including Puerp'l Fever)		1																						
OTHER DEVELOPMENTAL DISEASES . . . . .	34	13	22	1	1					24		1	1		1	1	2	2	1	1		17	17	
V. VIOLENT.																								
Accidental . . . . .	27	28	2			1		1		4	1	1	9	4	3	2	1	1	1			19	8	
Homicidal . . . . .	1	1											1									1		
Suicidal . . . . .	6	8											1	1	1	2		1				6		
OTHER VIOLENT CAUSES . . . . .	1	1											1										1	
UNKNOWN CAUSES . . . . .	1	1		1						1												1		
TOTAL FROM ALL CAUSES . . . . .	909	813	105	42	42	60	26	15	13	303	25	32	93	103	88	82	74	70	32	7		479	430	
TOTAL FROM ZYMOTIC DISEASES . . . . .	115	110																						
INCLUDING TUBERCULAR DISEASES . . . . .	267	251	2	6	4	19	11	8	9	59	11	5	12	10	9		6	2	1			63	52	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	169	150	7	5	5	9	3		1	30	4	7	34	42	16	22	10	4				84	85	
“ “ LOCAL do. . . . .	505	459	41	29	32	31	12	6	3	154	9	13	34	46	57	55	54	55	21	2		272	233	
“ “ DEVELOPMENTAL do. . . . .	84	55	53	1	1					55		1	1		2	1	3	7	9	5		33	51	
“ “ VIOLENT CAUSES . . . . .	35	38	2			1		1		4	1	1	12	5	4	4	1	2	1			26	9	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of February, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING FEBRUARY, 1893.			CASES REPORTED DURING FEBRUARY, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	115	....	Diphtheria . . . . .	108	....
Measles . . . . .	551	....	Measles . . . . .	92	1
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	193	....	Scarlatina . . . . .	291	....
Typhoid Fever . . . . .	17	....	Typhoid Fever . . . . .	23	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE U. S. WEATHER BUREAU OFFICE, BOSTON.

For the month of February, 1893, as reported by J. W. SMITH, Observer and Local Forecast Official.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.36	26	92	N.W.	0.01	Mean Barometer, 30.07.	
2	30.35	29	62	N.W.	0.17	Highest Barometer, 30.79, on the 9th.	
3	30.11	26	91	N.	0.29	Lowest Barometer, 28.90, on the 22d.	
4	30.50	14	42	N.W.	.00	Monthly Range of Barometer, 1.89.	
5	30.74	10	54	N.W.	.00	Mean Temperature, 28.3.	
6	30.21	29	90	S.	0.15	Highest Temperature, 53.0, on the 15th.	
7	30.04	36	70	W.	0.20	Lowest Temperature, — 1.0, on the 5th.	
8	30.62	16	58	N.W.	.00	Monthly Range of Temperature, 54.0.	
9	30.65	26	65	S.	.00	Greatest Daily Range of Temperature, 36.0 on the 6th.	
10	29.79	40	82	S.	0.92	Least Daily Range of Temperature, 3.0 on the 13th.	
11	30.13	37	70	W.	.00	Mean Daily Range of Temperature, 15.5.	
12	30.59	28	64	E.	.00	Mean Daily Dew-point, 18.4.	
13	30.30	32	92	N.E.	1.13	Mean Daily Relative Humidity, 73.0.	
14	30.24	38	72	N.	0.28	Prevailing Direction of Wind, W.	
15	29.84	46	66	S.W.	.00	Total Movement of Wind, 9,476 Miles.	
16	30.00	36	71	W.	T	Highest Velocity of Wind and Direction, 45 miles W. on the 20th.	
17	30.26	14	71	N.	T	Number of Foggy Days, 0.	
18	29.58	21	93	N.	0.87	Number of Clear Days, 8.	
19	29.50	22	78	W.	0.04	Number of Fair Days, 6.	
20	29.28	22	70	W.	0.24	Number of Cloudy Days, 14.	
21	30.02	14	50	W.	.00	Total Number of Days on which Rain or Snow fell, 16.	
22	29.24	28	87	N.W.	1.40	Depth of unmelted Snow on ground at end of month, 13.	
23	29.72	28	67	W.	T	Dates of Auroras, 15th.	
24	29.55	26	76	W.	0.18	Dates of Solar Halos.	
25	29.84	26	82	W.	0.15	Dates of Lunar Halos, 4th, 5th.	
26	30.05	30	81	N.W.	0.16	Thunder storm,	Dates of Frosts,
27	30.27	26	58	W.	.00	Mean Max. Temp., 34.6.	Mean Min. Temp., 19.1.
28	30.25	26	76	N.W.	0.04		
						COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
						1871 . . . . . 29	1871 . . . . . 2.63
						1872 . . . . . 23	1872 . . . . . 2.81
						1873 . . . . . 27	1873 . . . . . 3.21
						1874 . . . . . 28	1874 . . . . . 3.41
						1875 . . . . . 22	1875 . . . . . 3.74
						1876 . . . . . 27	1876 . . . . . 4.54
						1877 . . . . . 32	1877 . . . . . 0.45
						1878 . . . . . 29	1878 . . . . . 4.40
						1879 . . . . . 24	1879 . . . . . 4.35
						1880 . . . . . 32	1880 . . . . . 4.11
						1881 . . . . . 28	1881 . . . . . 4.89
						1882 . . . . . 50	1882 . . . . . 4.77
						1883 . . . . . 29	1883 . . . . . 2.74
						1884 . . . . . 31	1884 . . . . . 5.74
						1885 . . . . . 20	1885 . . . . . 3.00
						1886 . . . . . 27	1886 . . . . . 7.04
						1887 . . . . . 29	1887 . . . . . 3.69
						1888 . . . . . 28	1888 . . . . . 2.36
						1889 . . . . . 26	1889 . . . . . 1.54
						1890 . . . . . 33	1890 . . . . . 2.29
						1891 . . . . . 32	1891 . . . . . 3.66
						1892 . . . . . 28	1892 . . . . . 2.15
						1893 . . . . . 27	1893 . . . . . 6.22
TOTALS .....	—	—	—	—	6.22		
MEANS .....	30.07	26.5	73.0	W.	.222		

Average mean temperature for 23 years, 23.0.

Average mean precipitation for 23 years, 3.62.

\*T indicates trace of precipitation.



HEALTH DEPARTMENT OF THE CITY OF BOSTON.

Statement of Deaths for the month of March, 1893.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of March, 1893,	1034
Population estimated at 469,647.	Rate per 1,000 inhabitants, 26.41

Total number . . . . . 1034

SEX.

Males . . . . . 517

Females . . . . . 517

CONDITION.

Married . . . . . 308

Single . . . . . 550

Widows . . . . . 122

Widowers . . . . . 44

Unknown . . . . . 10

COLOR.

White . . . . . 1004

Colored . . . . . 30

Total deaths of children	Under 1 year . . . . .	179
	Under 2 years . . . . .	237
	Under 5 years . . . . .	309

Diarrhœal diseases	Under 1 year . . . . .	—
	Under 2 years . . . . .	—
	Under 5 years . . . . .	—
	All ages . . . . .	—

NATIVITY.

United States . . . . . 647

Ireland . . . . . 205

England . . . . . 20

Scotland . . . . . 10

Germany . . . . . 18

British America . . . . . 67

Italy . . . . . 10

Other Countries . . . . . 31

Unknown . . . . . 26

PARENTAGE.

United States . . . . . 249

Irish . . . . . 330

English . . . . . 26

Scotch . . . . . 9

German . . . . . 30

British American . . . . . 60

Italian . . . . . 27

Other Countries . . . . . 93

Mixed . . . . . 88

Unknown . . . . . 122

Still-births during the month . . . . . 52

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for March, 1893.	Total Mortality for March 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	12	9												1	2	5	1	2	1				11	1
CROUP . . . . .	9	5			1	1	3	2	2	9												7	2	
CARBUNCLE . . . . .		1																						
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .																								
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHOEA . . . . .		6																						
DYSENTERY . . . . .		1																						
DIPHTHERIA . . . . .	31	35			2	8	8	5	4	27	3		1									16	15	
ERTSIPELAS . . . . .	6	7	3							3			1			2						5	1	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	5	7													1	1	1	2					5	
MEASLES . . . . .	4	2			1	2				3	1											1	3	
PURPURA . . . . .	1																1					1		
PUERPERAL FEVER. . . . .	2	4										1	1										2	
PYÆMIA . . . . .	1	1													1							1		
REMITTENT FEVER . . . . .	1												1										1	
RHEUMATISM . . . . .	1	5															1					1		
SCARLATINA . . . . .	22	28			2	3	3	4	1	13	4	1	3				1					10	12	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	5	2	4			1				5												1	4	
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	8	4				1				1			1	3	2		1					2	6	
TONSILLITIS . . . . .		1																						
TYPHOID FEVER. . . . .	6	7						1		1	1				1	2	1					5	1	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	2	6	1		1					2													2	
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		2																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	26	20											1	5	3	7	7	2	1			9	17	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	21	26	4	2	2	3	1	2	1	15	1	1	2	1	1							9	12	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	17	24	6	7	2		1			16							1					8	9	
PHTHISIS PULMONALIS . . . . .	126	114			2		1		1	4		16	32	36	22	9	7					60	66	
OTHER CONSTITUTIONAL DISEASES . . . . .	29	22	1			2	2	1	1	7	2	4	1	3	5	1	4	2				17	12	



# SANITARY STATISTICS OF BOSTON, MASS.

MARCH, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558 ; paved 71.25 ; macadamized, 204.56 ; gravel, etc., 282.19.

Area of Parks 1,669 acres ; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

D—Diphtheria.  
 S—Scarlatina.  
 T—Typhoid Fever.  
 M—Measles.

**WARD MAP OF BOSTON,**

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarlatina, Typhoid Fever and Measles.

CITY HOSPITAL,

{ D.—15.  
 S.—6.  
 T.—3.  
 M.—

<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span>	Under 20 inhabitants to a square acre.
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span>	From 33 to 49 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border:1px solid black;"></span>	" 52 to 80 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:mediumseagreen; border:1px solid black;"></span>	" 111 to 123 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:darkgreen; border:1px solid black;"></span>	" 151 to 213 " " "



# of March, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for March, 1893.	Total Mortality for March, 1892.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 yr.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
APOPLEXY . . . . .	27	37	1		1	1				3				3	4	6	5	4	1	1		11	16	
BRIGHT'S DISEASE . . . . .	23	16						1	1		2	1	2	4	2	8	3					9	14	
BRONCHITIS . . . . .	62	55	7	8	8	6	4	2		35		3	2	3	5	3	5	5	1			26	36	
HEART DISEASE . . . . .	74	112	2						2	1	4	2	10	13	13	13	13	2	1			33	41	
MENINGITIS . . . . .	28	34	4	6	4	6	3		3	26		2	3	4		1	1	1				16	22	
NEPHRITIS . . . . .	16	26										1	1		3	5	2	3	1			10	6	
PLEURISY . . . . .	1	5													1								1	
PNEUMONIA . . . . .	192	119	7	10	13	19	3		2	54	2	2	15	23	28	23	21	19	5			120	72	
OTHER LOCAL DISEASES . . . . .	134	125	16	5	10	2	1	1	4	39	4	2	12	18	20	11	16	8	3	1		63	71	
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	5	3	4					1		5												1	4	
INANITION . . . . .	9	12	6	1	1	1				9												2	7	
OLD AGE . . . . .	27	27															1	12	11	3		8	19	
PREMATURE BIRTH . . . . .	8	17	8							8												2	6	
PUERPERAL DISEASES (not including Puerperal Fever) . . . . .	4	2										1	3										4	
OTHER DEVELOPMENTAL DISEASES . . . . .	18	29	12			1	1			14					1		1	2				12	6	
V. VIOLENT.																								
ACCIDENTAL . . . . .	48	27	2				1	1		4	3	3	12	7	3	7	4	3	2			32	16	
HOMICIDAL . . . . .	2	2	1							1			1										2	
SUICIDAL . . . . .	8	5											3	2		1	2					6	2	
OTHER VIOLENT CAUSES . . . . .																								
UNKNOWN CAUSES . . . . .	3	2	1	1						2						1						2	1	
TOTAL FROM ALL CAUSES . . . . .	1034	995	90	40	49	58	32	21	19	309	20	40	97	127	119	96	106	80	33	7		517	517	
TOTAL FROM ZYMOTIC DISEASES . . . . .	115	133																						
INCLUDING TUBERCULAR DISEASES . . . . .	316	323	8		6	17	14	12	7	64	7	3	7	8	8	5	9	3	2			61	55	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	219	206	11	9	6	5	5	3	3	42	3	21	36	45	31	17	19	4	1			103	116	
“ “ LOCAL do. . . . .	567	529	37	29	36	34	11	4	9	160	7	13	37	62	76	66	69	56	17	4		288	279	
“ “ DEVELOPMENTAL do. . . . .	71	90	30	1	1	2	1	1		36			1	3	1		2	14	11	3		25	46	
“ “ VIOLENT CAUSES . . . . .	58	35	3				1	1		5	3	3	16	9	3	8	6	3	2			38	20	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of March, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING MARCH, 1893.			CASES REPORTED DURING MARCH, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	116	....	Diphtheria . . . . .	114	....
Measles . . . . .	648	....	Measles . . . . .	86	1
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	228	....	Scarlatina . . . . .	447	....
Typhoid Fever . . . . .	24	..	Typhoid Fever . . . . .	24	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION. BOSTON.

For the month of March, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.85	36	70	N.W.	0.30	Mean Barometer, 30.04. Highest Barometer, 30.57, on the 29th.
2	29.85	29	50	W.	.00	Lowest Barometer, 29.45, on the 4th.
3	29.81	28	70	S.W.	T	Monthly Range of Barometer, 1.12.
4	29.46	28	75	N.	0.09	Mean Temperature, 33.8.
5	29.80	17	50	W.	.00	Highest Temperature, 58.0, on the 24th.
6	30.05	23	56	W.	.00	Lowest Temperature, — 13.0, on the 16th.
7	29.89	36	66	S.W.	.00	Monthly Range of Temperature, 45.0.
8	30.04	38	58	N.W.	.00	Greatest Daily Range of Temperature, 27.0 on the 24th.
9	29.77	39	96	N.E.	1.21	Least Daily Range of Temperature, 2.0 on the 10th.
10	30.32	35	84	N.E.	0.05	Mean Daily Range of Temperature, 12.9.
11	29.76	36	96	E.	.00	Mean Daily Dew-point, 24.8.
12	29.50	41	94	W.	0.21	Mean Daily Relative Humidity, 70.4.
13	29.96	45	68	N.W.	.00	Prevailing Direction of Wind, W. 26 %
14	29.96	42	84	E.	.00	Total Movement of Wind, 9,807 Miles.
15	29.62	32	79	W.	0.78	Highest Velocity of Wind and Direction, 48 miles N.E. on the 9th.
16	30.03	20	52	W.	.00	Number of Foggy Days, 0.
17	30.18	28	50	W.	.00	Number of Clear Days, 11.
18	30.06	32	50	N.W.	.00	Number of Fair Days, 8.
19	30.26	22	71	E. & N.W.	T	Number of Cloudy Days, 12.
20	30.41	28	54	N.W.	.00	Total Number of Days on which Rain or Snow fell, 9.
21	30.12	38	79	S.W.	0.03	Depth of unmelted Snow on ground at end of month, 0.
22	30.04	38	79	N.W.	T	Dates of Auroras, 0.
23	30.43	30	86	E.	0.06	Dates of Solar Halos, 27th.
24	29.81	44	98	S.W.	0.07	Dates of Lunar Halos, 7th, 25th, 31st.
25	29.90	48	82	W.	T	Thunder storm, 15th.
26	30.14	36	76	N.E.	.00	Mean Max. Temp., 40.2.
27	30.20	33	69	E.	.00	Dates of Frosts, Mean Min. Temp., 27.3.
28	30.36	30	60	N.	T	
29	30.54	32	58	E.	.00	
30	30.08	41	71	S.W.	T	
31	29.83	42	56	W.	T	
TOTALS .....	—	—	—	—	2.80	
MEANS .....	30.04	33.8	70.4	W.	.090	

Average mean temperature for 23 years, 34.0.

Average mean precipitation for 23 years, 4.29.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of April, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of April, 1893, . . . . . 1065

Population estimated at 469,647.

Rate per 1,000 inhabitants, 27.21

Total number . . . . . 1065

### SEX.

Males . . . . . 553

Females . . . . . 512

### CONDITION.

Married . . . . . 344

Single . . . . . 541

Widows . . . . . 114

Widowers . . . . . 47

Unknown . . . . . 19

### COLOR.

White . . . . . 1043

Colored . . . . . 22

### NATIVITY.

United States . . . . . 664

Ireland . . . . . 212

England . . . . . 36

Scotland . . . . . 16

Germany . . . . . 20

British America . . . . . 68

Italy . . . . . 9

Other Countries . . . . . 22

Unknown . . . . . 18

### PARENTAGE.

United States . . . . . 262

Irish . . . . . 397

English . . . . . 23

Scotch . . . . . 16

German . . . . . 26

British American . . . . . 49

Italian . . . . . 21

Other Countries . . . . . 90

Mixed . . . . . 69

Unknown . . . . . 112

Still-births during the month . . . . . 59

Total deaths of children { Under 1 year . . . . . 149  
Under 2 years . . . . . 200  
Under 5 years . . . . . 275

Diarrhoeal diseases { Under 1 year . . . . . 4  
Under 2 years . . . . . 4  
Under 5 years . . . . . 4  
All ages . . . . . 7

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for April, 1893.	Total Mortality for April, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	10	7											1	2	3	2	1	1				7	3	
CROUP . . . . .	4	5			1	1	2			4											2	2		
CARCUNCLE . . . . .	1	1																1						
CHOLERA MORBUS . . . . .		1																						
CHOLERA INFANTUM . . . . .	4	2	2		2					4											3	1		
CEREBRO-SPINAL MENINGITIS . . . . .	2	1				1				1		1									1	1		
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	3	1													1	1		1				3		
DYSENTERY . . . . .		1																						
DIPHTHERIA . . . . .	27	52			1	3	9	4	5	22	4	1									11	16		
ERYSIPELAS . . . . .	11	3	2	1					1	4			2	1	2	2					7	4		
INTERMITTENT FEVER . . . . .	1															1					1			
INFLUENZA . . . . .	16	3												2	2	2	3	2	3	1	3	12		
MEASLES . . . . .	2	1				1	1			2											1	1		
PURPURA . . . . .		1																						
PURPERAL FEVER . . . . .	3	6												3								3		
PYŒMIA . . . . .	2		1							1			1								1	1		
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	7	4										2	1	1	1	1		1			5	2		
SCARLATINA . . . . .	25	25			1	3	8	3	2	17	5	1	2								15	10		
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	3	5	2	1						3											2	1		
SYPHILIS . . . . .	4												2	2							1	3		
SEPTICŒMIA . . . . .	3													2	1						1	2		
TONSILLITIS . . . . .	1					1				1												1		
TYPHOID FEVER . . . . .	10	7			1					1		2	3	2	1	1					6	4		
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	3			1					1												1		
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		1																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	23	33												3	6	2	8	3	1		7	16		
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	17	15	1	2	2	4	1	2		12	2	2	1								8	9		
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	18	27	9	2	2	2	1			16				1	1						4	14		
PHTHISIS PULMONALIS . . . . .	141	135					1	1	1	3	3	13	51	32	22	6	7	2	2		72	69		
OTHER CONSTITUTIONAL DISEASES . . . . .	20	25		2	1	1				4	2	1	6	3	2	2					8	12		



# SANITARY STATISTICS OF BOSTON, MASS.

## APRIL, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

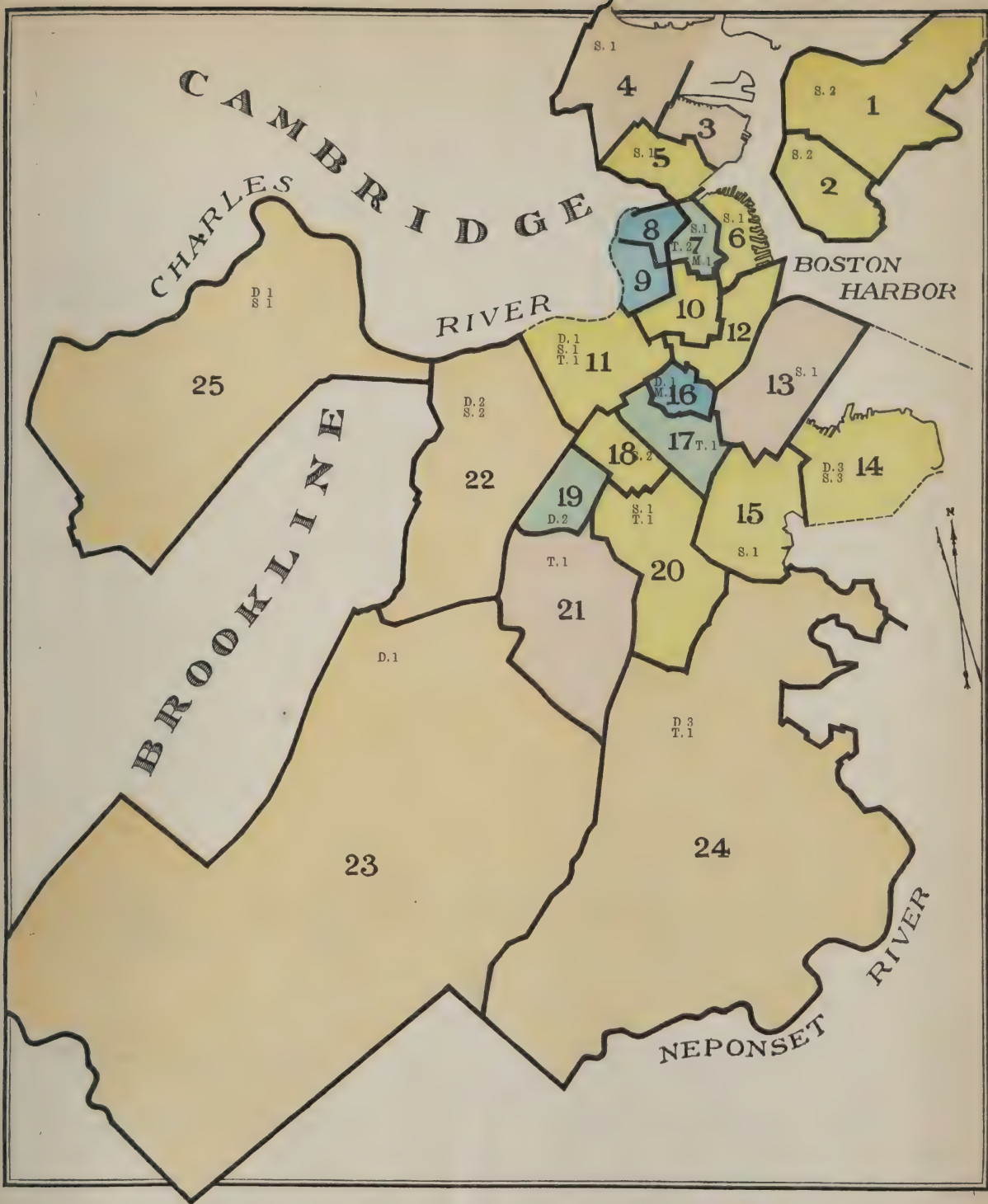
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

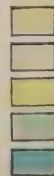
- D—Diphtheria.
- S—Scarlatina.
- T—Typhoid Fever.
- M—Measles.

**WARD MAP OF BOSTON,**

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarletina, Typhoid Fever and Measles.

CITY HOSPITAL,

- { D.—13.
- { S.—5.
- { T.—3.
- { M.—



- Under 20 Inhabitants to a square acre.
- From 33 to 49 " " "
- " 52 to 80 " " "
- " 111 to 123 " " "
- " 151 to 213 " " "



# of April, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																			SEX.			
	Total Mortality for April, 1893.	Total Mortality for April, 1892.	Under 2 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total mortality 5 years and over.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
APoplexy . . . . .	39	16							1	1				2	2	10	7	9	7			13	20
BRIGHT'S DISEASE . . . . .	7	10											2	1	1		1	1	1			2	5
BRONCHITIS . . . . .	62	51	4	8	11	7	3	1		34	1		2		3	7	8	3	4			31	31
HEART DISEASE . . . . .	58	90	1			1				2		2	5	7	13	4	13	11		1		26	32
MENINGITIS . . . . .	39	27	1	2	7	9	1	1		21	2	2	2	6	1	2	1	2				31	8
NEPHRITIS . . . . .	20	12						1		1	1	1	1		2	6	5	2	1			11	9
PLEURISY . . . . .		1																					
PNEUMONIA . . . . .	240	102	6	5	6	11	7	8	1	44	4	4	17	35	45	38	27	18	7		1	142	98
OTHER LOCAL DISEASES . . . . .	139	132	19	6	8	5	4	2		44	4	6	13	15	13	13	13	14	3	1		69	70
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .	1	1	1							1												1	
INANITION . . . . .	7	15	4	1	1					6						1						2	5
OLD AGE . . . . .	23	24														2	3	10	12	1		11	17
PREMATURE BIRTH . . . . .	11	13	11							11												8	3
PUERPERAL DISEASES (not including Puerperal Fever) . . . . .	3	3											2	1									3
OTHER DEVELOPMENTAL DISEASES . . . . .	16	21	7							7			1			3		5				11	5
V. VIOLENT.																							
ACCIDENTAL . . . . .	27	29				1	2	1		4	2	5	7	4	3		1	1				13	9
HOMICIDAL . . . . .	1	2															1						1
SUICIDAL . . . . .	6	10											2	1	2	1						3	3
OTHER VIOLENT CAUSES . . . . .	1	1	1							1												1	
UNKNOWN CAUSES . . . . .	3	3			2					2					1							2	1
TOTAL FROM ALL CAUSES . . . . .	1065	938	72	30	47	51	40	24	11	275	30	42	125	126	128	107	93	96	42	4	1	556	512
TOTAL FROM ZYMOTIC DISEASES . . . . .	139	150																					
INCLUDING TUBERCULAR DISEASES . . . . .	353	321	7	2	7	10	20	7	8	61	9	6	13	15	11	10	4	5	4	1		67	72
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	219	235	10	6	5	7	3	3	1	35	7	16	58	39	31	10	15	5	3			99	120
“ “ LOCAL do. . . . .	603	451	31	21	32	33	15	13	2	147	12	15	42	66	80	80	75	60	23	2	1	330	273
“ “ DEVELOPMENTAL do. . . . .	66	77	23	1	1					25			3	1		6	3	15	12	1		33	33
“ “ VIOLENT CAUSES . . . . .	35	42	1			1	2	1		5	2	5	9	5	5	1	2	1				22	13

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of April, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING APRIL, 1893.			CASES REPORTED DURING APRIL, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	73	....	Diphtheria . . . . .	135	....
Measles . . . . .	654	....	Measles . . . . .	124	1
Small Pox . . . . .	....	1	Small Pox . . . . .	....	....
Scarlatina . . . . .	245	....	Scarlatina . . . . .	339	1
Typhoid Fever . . . . .	34	....	Typhoid Fever . . . . .	31	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of April, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.63	52	52	S.	0.01	Mean Barometer, 30.07.
2	30.00	41	42	N.W.	.00	Highest Barometer, 30.62, on the 7th.
3	30.27	39	52	S.W.	.00	Lowest Barometer, 29.48, on the 4th.
4	29.65	48	92	S.W.	0.04	Monthly Range of Barometer, 1.14.
5	29.98	48	44	W.	0.02	Mean Temperature, 44.4.
6	30.43	31	60	N.	0.31	Highest Temperature, 68.0, on the 14th.
7	30.48	32	90	S.E.	0.34	Lowest Temperature, — 26.0, on the 7th.
8	29.84	44	86	W.	0.44	Monthly Range of Temperature, 42.0.
9	30.60	50	50	N.W.	.00	Greatest Daily Range of Temperature, 29.0 on the 1st.
10	30.22	50	78	E.	.00	Least Daily Range of Temperature, 5.0 on the 17th.
11	30.37	42	48	E.	.00	Mean Daily Range of Temperature, 15.1.
12	30.46	48	44	S.W.	.00	Mean Daily Dew-point, 33.4.
13	30.10	48	66	S.	T	Mean Daily Relative Humidity, 69.0.
14	29.89	56	65	S.W.	0.06	Prevailing Direction of Wind, N.W. 22 §
15	29.80	37	94	N.E.	0.74	Total Movement of Wind, 8,602 Miles.
16	30.13	39	74	N.W.	.00	Highest Velocity of Wind and Direction, 42 miles W. on the 5th.
17	30.16	39	81	N.E.	T	Number of Foggy Days, 0.
18	29.84	42	48	N.W.	.00	Number of Clear Days, 10.
19	30.01	46	42	W.	.00	Number of Fair Days, 4.
20	30.23	38	76	E.	0.10	Number of Cloudy Days, 16.
21	29.87	44	96	E.	0.70	Total Number of Days on which Rain or Snow fell, 14.
22	29.78	42	90	N.E.	0.05	Depth of unmelted Snow on ground at end of month, 0.
23	29.89	46	74	W.	T	Dates of Auroras, 0.
24	30.14	48	68	W.	.00	Dates of Solar Halos,
25	30.09	49	71	S.W.	0.06	Dates of Lunar Halos, 28th.
26	30.42	40	46	N.W.	.00	Thunder storm, 8th.
27	30.22	42	82	S.E.	0.17	Mean Max. Temp., 51.9.
28	30.02	52	80	W.	T	Dates of Frosts,
29	29.91	59	64	S.W.	T	Mean Min. Temp., 36.8.
30	30.14	52	78	N.	.00	
TOTALS.....	—	—	—	—	3.07	
MEANS.....	30.07	44.4	69	N.W.	.102	

Average mean temperature for 23 years, 45.0.

Average mean precipitation for 23 years, 3.38.

\*T indicates trace of precipitation.

COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
1871 . . . . . 47	1871 . . . . . 3.79
1872 . . . . . 45	1872 . . . . . 1.31
1873 . . . . . 47	1873 . . . . . 3.83
1874 . . . . . 37	1874 . . . . . 7.97
1875 . . . . . 42	1875 . . . . . 4.92
1876 . . . . . 43	1876 . . . . . 3.61
1877 . . . . . 44	1877 . . . . . 4.19
1878 . . . . . 47	1878 . . . . . 6.14
1879 . . . . . 42	1879 . . . . . 6.58
1880 . . . . . 46	1880 . . . . . 2.83
1881 . . . . . 43	1881 . . . . . 1.66
1882 . . . . . 42	1882 . . . . . 2.50
1883 . . . . . 44	1883 . . . . . 2.83
1884 . . . . . 43	1884 . . . . . 4.76
1885 . . . . . 46	1885 . . . . . 3.30
1886 . . . . . 48	1886 . . . . . 1.70
1887 . . . . . 44	1887 . . . . . 2.62
1888 . . . . . 42	1888 . . . . . 2.04
1889 . . . . . 48	1889 . . . . . 3.07
1890 . . . . . 46	1890 . . . . . 2.29
1891 . . . . . 48	1891 . . . . . 1.71
1892 . . . . . 48	1892 . . . . . 0.93
1893 . . . . . 44	1893 . . . . . 3.33



HEALTH DEPARTMENT OF THE CITY OF BOSTON.

Statement of Deaths for the month of May, 1893.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of May, 1893,	1010
Population estimated at 469,647.	Rate per 1,000 inhabitants, 25.80

Total number . . . . .	1010	NATIVITY.	
SEX.		United States . . . . .	652
Males . . . . .	548	Ireland . . . . .	205
Females . . . . .	462	England . . . . .	18
CONDITION.		Scotland . . . . .	8
Married . . . . .	317	Germany . . . . .	14
Single . . . . .	545	British America . . . . .	63
Widows . . . . .	92	Italy . . . . .	12
Widowers . . . . .	46	Other Countries . . . . .	19
Unknown . . . . .	10	Unknown . . . . .	19
COLOR.		PARENTAGE.	
White . . . . .	973	United States . . . . .	256
Colored . . . . .	37	Irish . . . . .	356
		English . . . . .	16
		Scotch . . . . .	18
		German . . . . .	25
		British American . . . . .	48
		Italian . . . . .	22
		Other Countries . . . . .	89
		Mixed . . . . .	65
		Unknown . . . . .	120
		Still-births during the month . . . . .	42
Total deaths of children			
{ Under 1 year . . . . .		165	
{ Under 2 years . . . . .		219	
{ Under 5 years . . . . .		292	
Diarrhoeal diseases			
{ Under 1 year . . . . .		5	
{ Under 2 years . . . . .		7	
{ Under 5 years . . . . .		7	
{ All ages . . . . .		11	

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for May, 1893.	Total Mortality for May, 1892.	AGE.																	SEX.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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# SANITARY STATISTICS OF BOSTON, MASS.

## MAY, 1893.

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Ward 1	86	16
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" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
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Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

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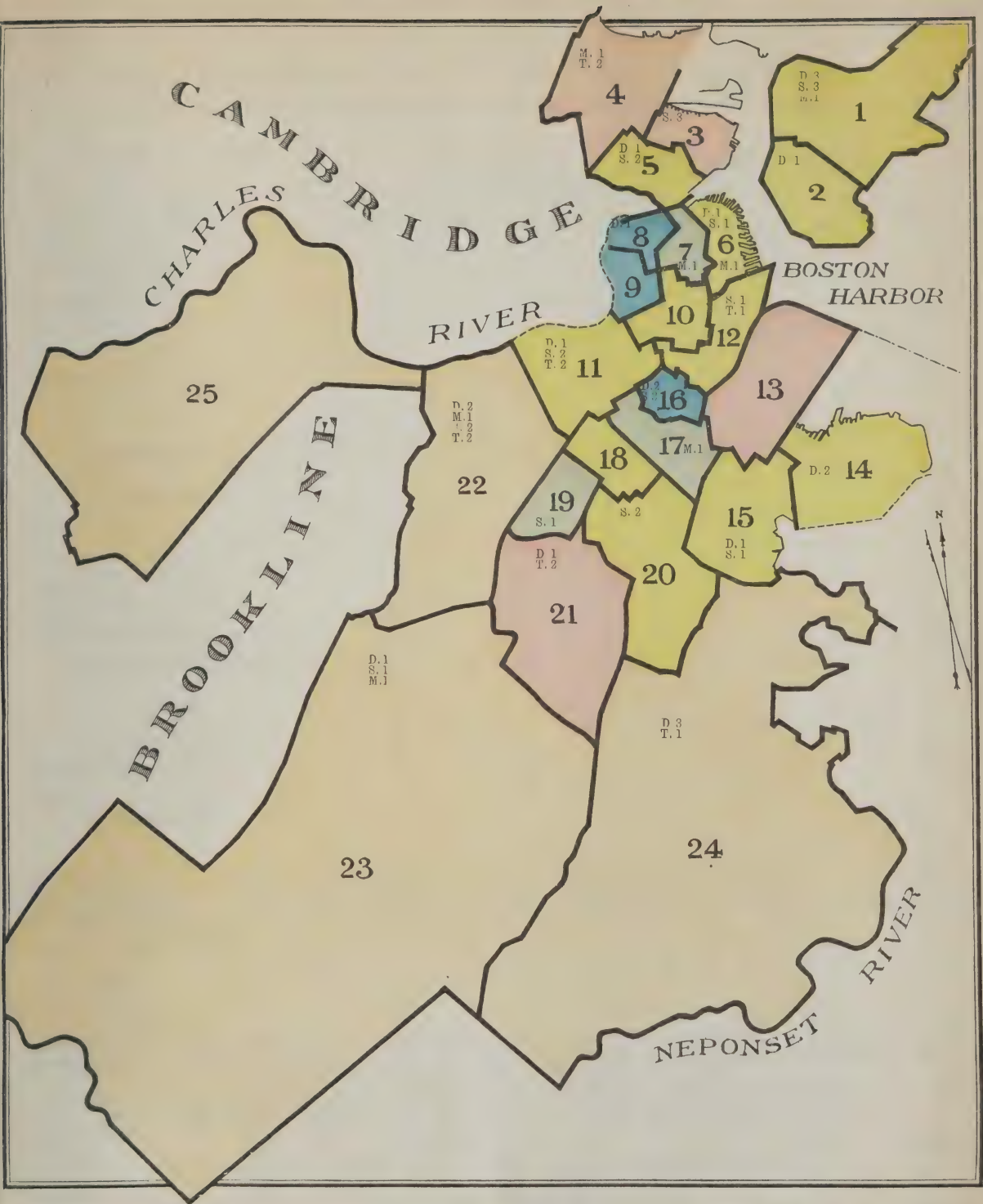
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

- D—Diphtheria.
- S—Scarlatina.
- T—Typhoid Fever.
- M—Measles.

**WARD MAP OF BOSTON,**

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarlatina, Typhoid Fever and Measles.

CITY HOSPITAL, { D.—13.  
S.—5.  
T.—4.  
M.—

<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow;"></span>	Under 20 inhabitants to a square acre.
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral;"></span>	From 33 to 49 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span>	" 52 to 80 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span>	" 111 to 123 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	" 151 to 213 " " "



# of May, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for May, 1885.	Total Mortality for May, 1892.	AGE.																			SEX.	
			Under 3 mos. 3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																							
Apoplexy . . . . .	34	26			1	1			2			1	4	3	6	7	7	3	1		17	17	
Bright's Disease . . . . .	16	8				1			1	1		2	3	3	3	2	1				12	4	
Bronchitis . . . . .	44	37	5	2	3	7	2	1	1	21	2	3	1	3	2	4	6	1	1		19	25	
Heart Disease . . . . .	63	86			1				1	3	2	9	7	7	10	12	8	3	1		36	27	
Meningitis . . . . .	41	29	3	4	4	4	4	1	2	22	4	2	6	3		2	1	1			23	13	
Nephritis . . . . .	14	11	1						1	2	1		4	1	1	1	2	2			7	7	
Pleurisy . . . . .	2	2						1		1				1							2		
Pneumonia . . . . .	175	105	2	6	8	11	5	4	1	37	3	2	27	20	23	26	18	15	3	1	102	73	
Other Local Diseases . . . . .	163	129	17	9	3	9	4		42	2	3	18	15	17	20	17	19	8	2		92	71	
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	1	4	1							1												1	
Inanition . . . . .	4	8	4							4											3	1	
Old Age . . . . .	15	21															2	7	5	1	5	10	
Premature Birth . . . . .	14	15	13			1				14											8	6	
Puerp'l Diseases (not including Puerp'l Fever)		2																					
Other Developmental Diseases . . . . .	26	26	19		1			1	21	1				3		1					14	12	
V. VIOLENT.																							
Accidental . . . . .	39	48		1						1	3	1	11	7	8	2	3	1	2		31	8	
Homicidal . . . . .	1													1							1		
Suicidal . . . . .	4	6												1	1	2					3	1	
Other Violent Causes . . . . .	2	1												1		1						2	
Unknown Causes . . . . .	2	1	2							2											1	1	
TOTAL FROM ALL CAUSES . . . . .	1010	895	86	31	48	54	35	21	17	292	42	30	131	106	110	104	83	76	28	8	548	462	
TOTAL FROM ZYMOTIC DISEASES . . . . .	134	118																					
INCLUDING TUBERCULAR DISEASES . . . . .	334	301	6	2	9	15	14	8	11	65	13	5	10	8	6	9	5	6	2		63	71	
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	216	214	13	7	18	7	4	5	1	55	4	15	40	33	35	20	9	3	1	1	109	107	
" " LOCAL do. . . . .	552	433	28	21	20	31	17	7	5	129	16	9	70	55	57	70	63	59	18	6	310	242	
" " DEVELOPMENTAL do. . . . .	60	76	37		1	1		1		40	1				3		7	5	1		30	30	
" " VIOLENT CAUSES . . . . .	46	55		1						1	3	1	11	10	9	5	3	1	2		35	11	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of May, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING MAY, 1893.			CASES REPORTED DURING MAY, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	86	....	Diphtheria . . . . .	107	....
Measles . . . . .	595	1	Measles . . . . .	178	....
Small Pox . . . . .	....	1	Small Pox . . . . .	....	....
Scarlatina . . . . .	205	....	Scarlatina . . . . .	373	....
Typhoid Fever . . . . .	55	..	Typhoid Fever . . . . .	89	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METECROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of May, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.21	48	86	E.	0.20	Mean Barometer, 29.90.
2	30.08	42	96	E.	0.03	Highest Barometer, 30.30, on the 9th.
3	30.06	42	98	N.E.	0.32	Lowest Barometer, 29.81, on the 4th.
4	29.46	46	94	S.	2.71	Monthly Range of Barometer, 0.99.
5	29.06	52	74	W.	T	Mean Temperature, 56.0.
6	29.84	53	70	W.	T	Highest Temperature, 88.0, on the 23d.
7	30.10	48	72	E.	.00	Lowest Temperature, — 38.0, on the 4th.
8	30.24	52	58	E.	.00	Monthly Range of Temperature, 50.0.
9	30.28	54	66	S.W.	.00	Greatest Daily Range of Temperature, 32.0 on the 10th.
10	30.19	66	46	W.	.00	Least Daily Range of Temperature, 2.0 on the 3d.
11	30.16	68	39	E.-W.	.00	Mean Daily Range of Temperature, 15.3.
12	29.93	68	58	S.W.	.00	Mean Daily Dew-point, 46.2.
13	29.68	49	94	N.E.	0.33	Mean Daily Relative Humidity, 73 %.
14	29.67	49	94	E.	0.09	Prevailing Direction of Wind, W.
15	29.81	55	88	E.	.00	Total Movement of Wind, 8,551 Miles.
16	29.78	50	95	E.	0.09	Highest Velocity of Wind and Direction, 48 miles E. on the 4th.
17	29.38	57	93	S.E., S.	1.05	Number of Foggy Days, 0.
18	29.40	56	86	S.W.	0.03	Number of Clear Days, 8.
19	29.74	56	70	N.W.	.00	Number of Fair Days, 12.
20	30.01	58	64	W.	.00	Number of Cloudy Days, 11.
21	29.72	71	53	W.	.00	Total Number of Days on which Rain or Snow fell, 14.
22	29.82	70	44	W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	29.63	75	68	S.W.	.00	Dates of Auroras, 0.
24	29.93	65	62	W.	0.02	Dates of Solar Halos,
25	29.96	62	48	S.W.	.00	Dates of Lunar Halos,
26	30.06	57	64	N.W.	0.02	Thunder storm, 27th.
27	29.99	49	90	E.	0.05	Mean Max. Temp., 64.0.
28	29.81	56	77	W.	0.31	
29	29.86	54	71	E.	.00	
30	29.96	60	65	S.W.	.00	
31	30.24	59	72	S.	0.01	
TOTALS .....	—	—	—	—	5.26	
MEANS .....	29.90	56	73	W.	.169	

Average mean temperature for 23 years, 56.0.

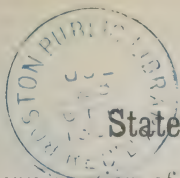
Average mean precipitation for 23 years, 3.63.

\*T Indicates trace of precipitation.

COMPARATIVE TEMPERATURE.		COMPARATIVE PRECIPITATIONS.	
	Inches.		Inches.
1871 . . . . .	58	1871 . . . . .	4.54
1872 . . . . .	58	1872 . . . . .	3.29
1873 . . . . .	56	1873 . . . . .	5.16
1874 . . . . .	57	1874 . . . . .	3.70
1875 . . . . .	58	1875 . . . . .	3.76
1876 . . . . .	54	1876 . . . . .	2.70
1877 . . . . .	55	1877 . . . . .	3.33
1878 . . . . .	56	1878 . . . . .	1.03
1879 . . . . .	60	1879 . . . . .	0.97
1880 . . . . .	43	1880 . . . . .	1.67
1881 . . . . .	55	1881 . . . . .	4.16
1882 . . . . .	49	1882 . . . . .	6.05
1883 . . . . .	56	1883 . . . . .	5.11
1884 . . . . .	54	1884 . . . . .	3.31
1885 . . . . .	52	1885 . . . . .	4.26
1886 . . . . .	56	1886 . . . . .	3.08
1887 . . . . .	59	1887 . . . . .	1.67
1888 . . . . .	52	1888 . . . . .	5.20
1889 . . . . .	60	1889 . . . . .	4.15
1890 . . . . .	57	1890 . . . . .	4.48
1891 . . . . .	56	1891 . . . . .	1.56
1892 . . . . .	56	1892 . . . . .	5.15
1893 . . . . .	56	1893 . . . . .	6.23



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.



## Statement of Deaths for the month of June, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of June, 1893, . . . . . 772

Population estimated at 487,397. . . . . Rate per 1,000 inhabitants, 21.05

Total number . . . . . 772

### SEX.

Males . . . . . 407

Females . . . . . 365

### CONDITION.

Married . . . . . 248

Single . . . . . 421

Widows . . . . . 60

Widowers . . . . . 29

Unknown . . . . . 14

### COLOR.

White . . . . . 752

Colored . . . . . 20

Total deaths of children { Under 1 year . . . . . 127  
Under 2 years . . . . . 173  
Under 5 years . . . . . 223

Diarrhoeal diseases { Under 1 year . . . . . 9  
Under 2 years . . . . . 9  
Under 5 years . . . . . 9  
All ages . . . . . 10

### NATIVITY.

United States . . . . . 484

Ireland . . . . . 155

England . . . . . 13.

Scotland . . . . . 8

Germany . . . . . 18

British America . . . . . 52

Italy . . . . . 5

Other Countries . . . . . 24

Unknown . . . . . 13

### PARENTAGE.

United States . . . . . 168

Irish . . . . . 280

English . . . . . 12

Scotch . . . . . 11

German . . . . . 32

British American . . . . . 46

Italian . . . . . 16

Other Countries . . . . . 78

Mixed . . . . . 53

Unknown . . . . . 76

Still-births during the month . . . . . 41

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for June, 1893.	Total Mortality for June, 1892.	AGE.																	SEX.				
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	4											2	2	3								5	2
CROUP . . . . .	3	3				1		2		3												1	2	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .		1																						
CHOLERA INFANTUM . . . . .	8	16	1	4	3					8												3	5	
CEREBRO-SPINAL MENINGITIS . . . . .	3	1	1				1			2			1									2	1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	2	2	1							1				1									2	
DYSENTERY . . . . .		1																						
DIPHTHERIA . . . . .	25	23			3	7	1	3	2	16	5	1	2	1								10	15	
ERYSIPELAS . . . . .	5	6	2					1		3						1	1					1	4	
INTERMITTENT FEVER . . . . .	1																1					1		
INFLUENZA . . . . .	1	2																1					1	
MEASLES . . . . .	2	4							1	1		1										1	1	
PURPURA . . . . .	1												1									1		
PURPERAL FEVER . . . . .	1	4											1										1	
PTÆMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	3	6					1			1			1		1							1	2	
SCARLATINA . . . . .	26	18	1			5	3	6	3	18	7	1										13	13	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	2			1	1					2												2		
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	3	1						1		1			1			1						2	1	
TONSILLITIS . . . . .	1	2						1		1												1		
TYPHOID FEVER . . . . .	12	6											2	3	2	2	1					7	5	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	1	3			1					1													1	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .																								
II. CONSTITUTIONAL.																								
CANCER . . . . .	17	33															3	4	5	5		8	9	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	21	20	1	1	5	3	1	1		12	3	2	1	2		1						13	8	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	21	13	5	2	3	3	1			17	1					1	2					11	10	
PHTHISIS PULMONALIS . . . . .	99	90		1			2		2	5	1	14	30	21	13	10	4	1				51	48	
OTHER CONSTITUTIONAL DISEASES . . . . .	23	17	1	2	1					4	1	5	6	3	1	2	1					9	14	



# SANITARY STATISTICS OF BOSTON, MASS.

JUNE, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

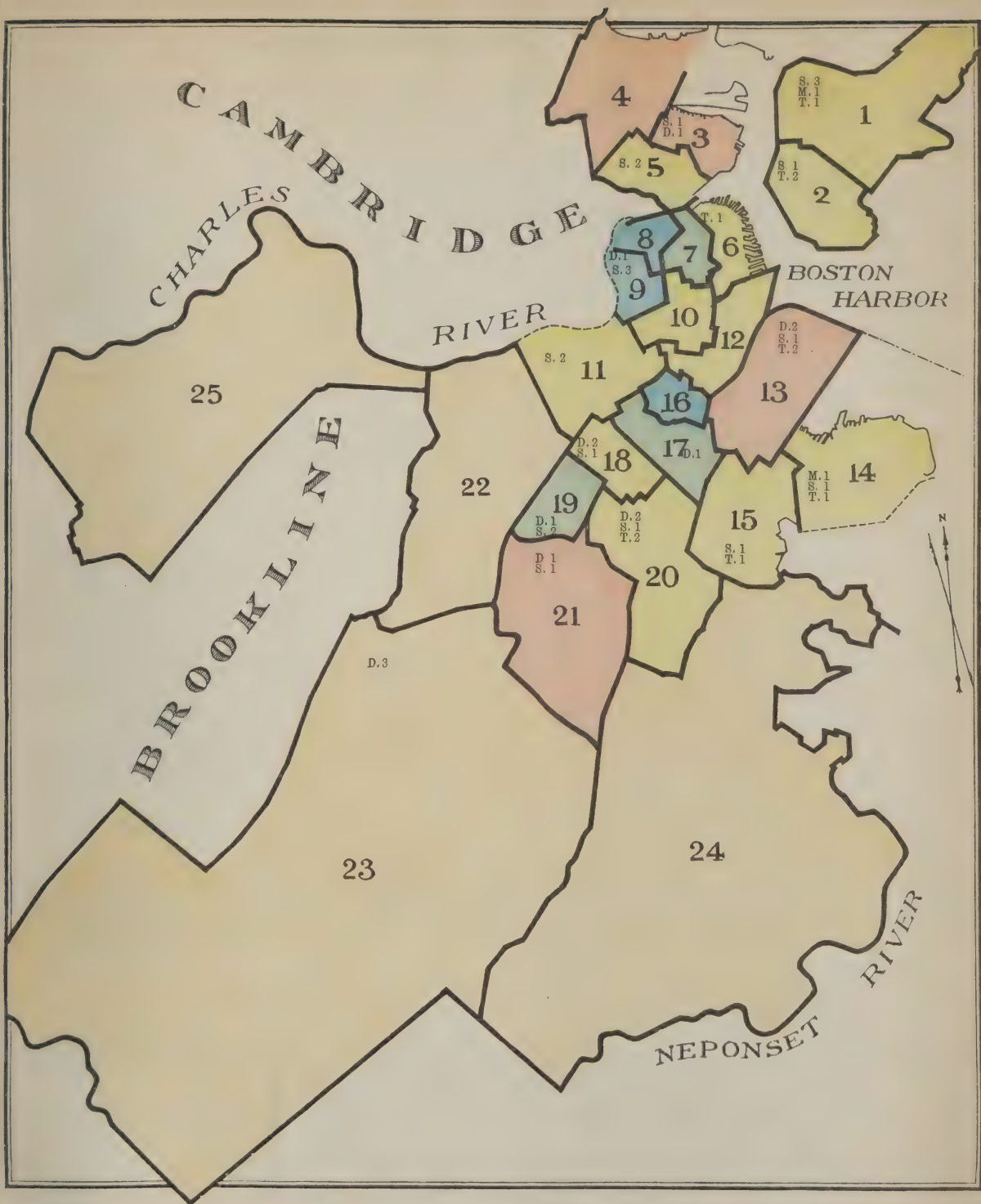
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





**Symbols:**

- D—Diphtheria.  
S—Scarlatina.  
T—Typhoid Fever.  
M—Measles.

**WARD MAP OF BOSTON,**

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarlatina, Typhoid Fever and Measles.

CITY HOSPITAL,

{ D.—11.  
S.—9.  
T.—2.  
M.—1

	Under 20 inhabitants to a square acre.
	From 33 to 49 " " "
	" 52 to 80 " " "
	" 111 to 123 " " "
	" 151 to 213 " " "



# of June, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.		
	Total Mortality for June, 1893.	Total Mortality for June, 1892.	Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
III. LOCAL.																							
Apoplexy . . . . .	32	30									1	2		1		10	14	3	1			15	17
Bright's Disease . . . . .	8	10												2	2		2	2				5	
Bronchitis . . . . .	22	36	1	5	3	1		1	1	12			2		3		2	2	1			8	14
Heart Disease . . . . .	62	62	1							1	2	4	8	7	6	12	11	7	3	1		31	31
Meningitis . . . . .	25	29	2	1	3	4		1	3	14	3	2	2	2		2						14	11
Nephritis . . . . .	19	13							1	1	1	1	4	1	2		7	2				10	9
Pleurisy . . . . .		1																					
Pneumonia . . . . .	85	58	4	4	1	12	2	1		24	1	3	9	12	9	9	7	10	1			46	39
Other Local Diseases . . . . .	125	125	15	4	4	9	3			35	1	5	12	16	18	12	10	12	3	1		72	53
IV. DEVELOPMENTAL.																							
Cyanosis . . . . .	3	3	3							3												2	1
Inanition . . . . .	7	5	3	2		1				6	1											5	
Old Age . . . . .	16	18														1	4	4	4	3		7	9
Premature Birth . . . . .	9	11	9							9												5	4
Puerp'l Diseases (not including Puerp'l Fever)	1	5												1									1
Other Developmental Diseases . . . . .	22	15	14	1	1				1	17				1	1		1		2			11	11
V. VIOLENT.																							
Accidental . . . . .	35	38	1				1	1	1	4	1	2	5	12	3	5	2		1			27	8
Homicidal . . . . .		1																					
Suicidal . . . . .	6	9											1	3	1	1						6	
Other Violent Causes . . . . .	5	2											2	2			1						5
Unknown Causes . . . . .	2	1	1							1				1									2
TOTAL FROM ALL CAUSES . . . . .	772	749	70	23	29	46	16	19	15	223	29	45	95	93	67	74	75	49	16	5		407	365
TOTAL FROM ZYMOTIC DISEASES . . . . .	107	104																					
INCLUDING TUBERCULAR DISEASES . . . . .	240	256	6	5	8	13	6	14	6	58	12	5	14	6	5	4	2	1				51	56
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	181	173	10	6	9	6	4	1	2	38	6	21	37	26	17	18	12	6				92	89
“ “ LOCAL do. . . . .	378	364	23	14	11	26	5	3	5	87	9	17	37	41	40	45	53	38	9	2		201	177
“ “ DEVELOPMENTAL do. . . . .	58	57	29	3	1	1			1	35	1			2	1	1	5	4	6	3		30	28
“ “ VIOLENT CAUSES . . . . .	46	50	1				1	1	1	4	1	2	8	17	4	6	3		1			33	13

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of June, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING JUNE, 1893.			CASES REPORTED DURING JUNE, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	112	....	Diphtheria . . . . .	77	....
Measles . . . . .	563	....	Measles . . . . .	177	1
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	149	....	Scarlatina . . . . .	217	....
Typhoid Fever . . . . .	43	....	Typhoid Fever . . . . .	60	1
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of June, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.32	62	78	S.	.00	Mean Barometer, 30.03.
2	30.28	60	80	S.	.00	Highest Barometer, 30.33, on the 1st.
3	30.24	56	91	E.	0.05	Lowest Barometer, 29.74, on the 22d.
4	30.04	66	86	S.E., S.W.	T	Monthly Range of Barometer, 0.59.
5	29.88	78	71	S.W.	.00	Mean Temperature, 65.0.
6	29.83	82	78	S.W.	T	Highest Temperature, 94.0, on the 20th.
7	30.05	70	67	W.	0.02	Lowest Temperature, — 52.0, on the 1st.
8	30.25	66	56	W.	.00	Monthly Range of Temperature, 42.0.
9	30.16	66	66	S.W.	.00	Greatest Daily Range of Temperature, 26.0 on the 5th.
10	29.98	70	77	N.E.	.00	Least Daily Range of Temperature, 3.0 on the 17th.
11	29.96	80	64	W., S.W.	.00	Mean Daily Range of Temperature, 14.0.
12	30.06	61	91	N.E.	0.07	Mean Daily Dew-point, 58.2.
13	30.20	61	97	N.	0.08	Mean Daily Relative Humidity, 83 %.
14	30.07	64	96	E.	0.14	Prevailing Direction of Wind, E.
15	29.90	74	87	E., S.W.	.00	Total Movement of Wind, 6,841 Miles.
16	30.13	56	91	N.E.	.00	Highest Velocity of Wind and Direction, 30 miles E. on the 22d.
17	30.03	54	98	N.E.	0.24	Number of Foggy Days, 0.
18	29.96	63	94	N., E.	0.04	Number of Clear Days, 8.
19	30.02	68	73	E.	.00	Number of Fair Days, 13.
20	29.90	82	62	N.W.	.00	Number of Cloudy Days, 9.
21	29.78	70	77	E.	.00	Total Number of Days on which Rain or Snow fell, 10.
22	29.75	58	90	E.	0.79	Depth of unmelted Snow on ground at end of month, 0.
23	29.84	56	98	N.E.	0.67	Dates of Auroras, 0.
24	29.98	58	96	N., E.	0.10	Dates of Solar Halos,
25	29.95	58	96	E.	.00	Dates of Lunar Halos,
26	29.85	58	94	E.	T	Thunder storm, 12th.
27	30.00	58	86	N.E.	.00	Mean Max. Temp., 72.0.
28	30.18	58	88	E.	.00	Dates of Frosts,
29	30.16	62	82	S.W.	.00	Mean Min. Temp., 58.0.
30	30.10	64	87	S.W.	.00	COMPARATIVE TEMPERATURE.
TOTALS .....	—	—	—	—	2.20	1871 . . . . . 66
MEANS .. ....	30.03	65.0	83.0	E.	.073	1872 . . . . . 68
						1873 . . . . . 68
						1874 . . . . . 66
						1875 . . . . . 67
						1876 . . . . . 68
						1877 . . . . . 67
						1878 . . . . . 64
						1879 . . . . . 64
						1880 . . . . . 67
						1881 . . . . . 61
						1882 . . . . . 66
						1883 . . . . . 69
						1884 . . . . . 66
						1885 . . . . . 66
						1886 . . . . . 63
						1887 . . . . . 64
						1888 . . . . . 67
						1889 . . . . . 68
						1890 . . . . . 64
						1891 . . . . . 65
						1892 . . . . . 70
						1893 . . . . . 65
						1871 . . . . . 6.55
						1872 . . . . . 4.84
						1873 . . . . . 0.54
						1874 . . . . . 3.94
						1875 . . . . . 7.25
						1876 . . . . . 1.72
						1877 . . . . . 3.21
						1878 . . . . . 2.28
						1879 . . . . . 6.24
						1880 . . . . . 0.75
						1881 . . . . . 7.79
						1882 . . . . . 1.03
						1883 . . . . . 2.07
						1884 . . . . . 4.01
						1885 . . . . . 3.70
						1886 . . . . . 1.34
						1887 . . . . . 1.98
						1888 . . . . . 2.69
						1889 . . . . . 2.77
						1890 . . . . . 2.21
						1891 . . . . . 3.06
						1892 . . . . . 3.05
						1893 . . . . . 2.20

Average mean temperature for 23 years, 66.0.

Average mean precipitation for 23 years, 3.22.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of July, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of July, 1893, . . . . . 1001  
Population estimated at 487,397. Rate per 1,000 inhabitants, 24.64

Total number . . . . . 1001

### SEX.

Males . . . . . 541

Females . . . . . 460

### CONDITION.

Married . . . . . 249

Single . . . . . 636

Widows . . . . . 81

Widowers . . . . . 25

Unknown . . . . . 10

### COLOR.

White . . . . . 978

Colored . . . . . 23

Total deaths of children { Under 1 year . . . . . 313  
Under 2 years . . . . . 367  
Under 5 years . . . . . 429

Diarrhoeal diseases { Under 1 year . . . . . 151  
Under 2 years . . . . . 165  
Under 5 years . . . . . 167  
All ages . . . . . 176

### NATIVITY.

United States . . . . . 685

Ireland . . . . . 186

England . . . . . 22

Scotland . . . . . 10

Germany . . . . . 12

British America . . . . . 50

Italy . . . . . 5

Other Countries . . . . . 19

Unknown . . . . . 12

### PARENTAGE.

United States . . . . . 203

Irish . . . . . 351

English . . . . . 28

Scotch . . . . . 8

German . . . . . 23

British American . . . . . 74

Italian . . . . . 21

Other Countries . . . . . 97

Mixed . . . . . 101

Unknown . . . . . 95

Still-births during the month . . . . . 51

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for July, 1893.	Total Mortality for July, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	9	8											2	6	1								7	2
CROUP . . . . .	2	2				2				2												1	1	
CARBUNCLE . . . . .	1																1					1		
CHOLERA MORBUS . . . . .	3	10													1		1					1	2	
CHOLERA INFANTUM . . . . .	166	269	21	46	74	14				155	1											89	67	
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	11	18	2	4	2			1		9						1		1				6	5	
DYSENTERY . . . . .	6	6			2				1	3				1		1	1					3	3	
DIPHTHERIA . . . . .	30	19				2	10	7	3	22	5	1			1	1						17	13	
ERYSIPELAS . . . . .	1	4	1							1												1		
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	2														1				1			1	1	
MEASLES . . . . .	1	1			1					1													1	
PURPURA . . . . .																								
PUERPERAL FEVER . . . . .	4	1											3	1									4	
PYŒMIA . . . . .		2																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	4	9			1					1						1	2					1	3	
SCARLATINA . . . . .	16	10				2	3	1	2	8	7	1										10	6	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1	1				1				1												1		
SYPHILIS . . . . .	1																1					1		
SEPTICŒMIA . . . . .	3	1													1	1		1				1	2	
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	7	6									1	1	3	2								6	1	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	3	1	1		1	1				3												1	2	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		4																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	22	22		1						1				2	3	4	7	4	1			12	10	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	15	19		2	5	2	2			11	1		2	1								10	5	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	39	35	9	11	8	4	2			34		1				1	1	1	1			15	24	
PHTHISIS PULMONALIS . . . . .	112	137			1	1		1	1	4		19	42	28	10	5	2	2				33	59	
OTHER CONSTITUTIONAL DISEASES . . . . .	12	22	1							1	1	2	4	3			1					5	7	



# SANITARY STATISTICS OF BOSTON, MASS.

JULY, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

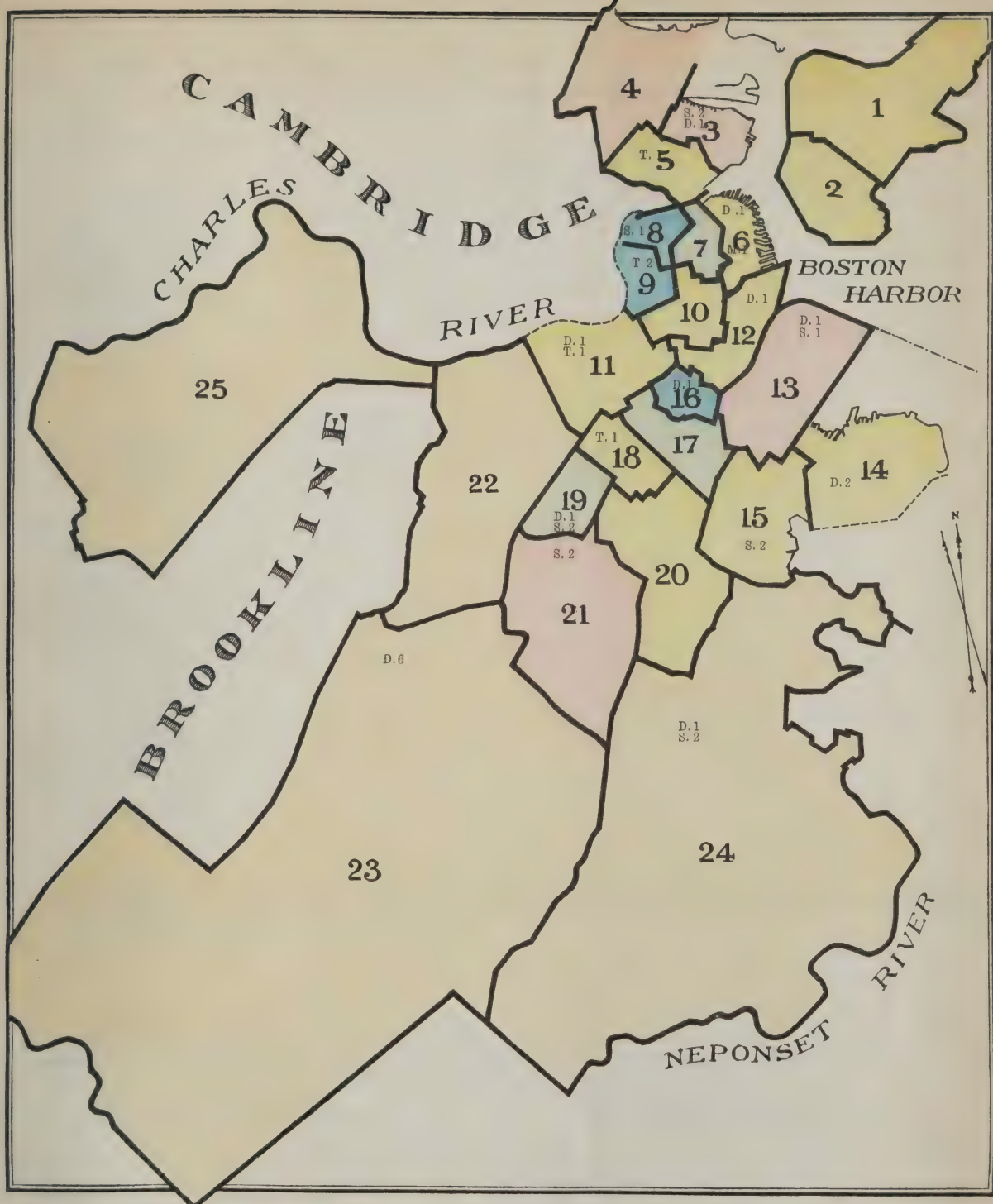
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





Symbols:

D—Diphtheria.

S—Scarlatina.

T—Typhoid Fever.

M—Measles.

### WARD MAP OF BOSTON,

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarletina, Typhoid Fever and Measles.

CITY HOSPITAL, { D.—14.  
S.—4.  
T.—2.  
M.—

	Under 20 inhabitants to a square acre.
	From 33 to 49 " " "
	" 52 to 80 " " "
	" 111 to 123 " " "
	" 151 to 213 " " "



# of July, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for July, 1893.	Total Mortality for July, 1892.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
Apoplexy . . . . .	33	27			1	1	1		3		1	1	3	3	5	7	7	3				16	17	
Bright's Disease . . . . .	9	12									1	3	1	2	2							6		
Bronchitis . . . . .	26	19	2	4	7	1	1		15	1		1				4	4		1			11	15	
Heart Disease . . . . .	65	52					2		2	3	2	8	5	10	11	14	8	2				32	33	
Meningitis . . . . .	32	31	3	2	8	3	3		4	23	3		2	2		2						16	16	
Nephritis . . . . .	11	12				1				1			4	2		2		2				4	7	
Pleurisy . . . . .	1													1								1		
Pneumonia . . . . .	56	36		1	4	6	2	1	14	1		10	9	9	8	4	1					38	18	
Other Local Diseases . . . . .	183	214	19	14	24	9	5	2	73	4	4	15	11	20	18	17	15	6				97	86	
IV. DEVELOPMENTAL.																								
Cyanosis . . . . .																								
Inanition . . . . .	4	2	4							4												2	2	
Old Age . . . . .	15	18														4	1	9	1			4	11	
Premature Birth . . . . .	11	16	11							11												7	4	
Puerp'l Diseases (not including Puerp'l Fever)	4	15										1	1	1	1								4	
Other Developmental Diseases . .	19	15	13		1	2				16					1		1		1			9	10	
V. VIOLENT.																								
Accidental . . . . .	63	31		1		3		4	2	10	2	5	12	14	9	6	2	3				48	15	
Homicidal . . . . .		2																						
Suicidal . . . . .	7	4											1	2		2	2					6	1	
Other Violent Causes . . . . .	1	1										1										1		
Unknown Causes . . . . .		2																						
Total from all Causes . . . . .	1001	1111	87	86	140	54	32	17	13	429	30	40	114	96	73	69	73	51	24	2		541	460	
Total from Zymotic Diseases . . . . .	261	372																						
Including Tubercular Diseases . . . .	395	537	25	50	81	21	14	9	6	206	14	3	8	12	4	3	7	3	1			148	113	
Total from Constitutional Diseases . .	200	235	10	14	14	7	4	1	1	51	2	22	48	34	13	10	11	7	2			95	105	
“ “ Local do. . . . .	416	403	24	21	44	21	14	3	4	131	12	8	44	33	45	48	46	37	11	1		221	195	
“ “ Developmental do. . . . .	53	61	28		1	2				31		1	1	1	2		5	1	10	1		22	31	
“ “ Violent Causes . . . . .	71	38		1		3		4	2	10	2	6	13	13	9	8	4	3				55	16	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of July, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING JULY, 1893.			CASES REPORTED DURING JULY, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	89	....	Diphtheria . . . . .	76	....
Measles . . . . .	200	....	Measles . . . . .	81	19
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	144	....	Scarlatina . . . . .	124	....
Typhoid Fever . . . . .	41	..	Typhoid Fever . . . . .	60	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of July, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.	
1	30.04	66	82	S.W.	.00	Mean Barometer, 29.92.	
2	29.94	70	82	S.W.	.00	Highest Barometer, 30.178, on the 11th.	
3	29.88	70	84	S.W.	T	Lowest Barometer, 29.618, on the 22d.	
4	29.88	73	83	W.	.00	Monthly Range of Barometer, .560.	
5	29.91	70	65	W.	T	Mean Temperature, 71.4.	
6	29.90	70	62	N.W.	0.14	Highest Temperature, 91.0, on the 22d, 26th.	
7	30.06	71	56	E.	.00	Lowest Temperature, — 54.0, on the 24th.	
8	29.90	74	56	S.W.	.00	Monthly Range of Temperature, 37.0.	
9	29.80	77	63	W.	0.07	Greatest Daily Range of Temperature, 28.0 on the 26th.	
10	30.04	68	52	N.W.	.00	Least Daily Range of Temperature, 6.0 on the 27th.	
11	30.14	70	58	W.	.00	Mean Daily Range of Temperature, 17.9.	
12	30.04	73	64	W.	0.03	Mean Daily Dew-point, 68.3.	
13	29.87	72	78	S.W.	0.01	Mean Daily Relative Humidity, 68.2.	
14	29.98	64	55	E.	.00	Prevailing Direction of Wind, W.	
15	21.91	70	54	S.W.	.00	Total Movement of Wind, 7,836 Miles.	
16	29.72	79	62	S.W.	.00	Highest Velocity of Wind and Direction, 33 miles N.W. on the 27th.	
17	29.86	75	63	W.	T	Number of Foggy Days, 0.	
18	29.88	78	75	W.	0.23	Number of Clear Days, 11.	
19	29.98	74	66	N.W.	0.02	Number of Fair Days, 15.	
20	30.03	70	54	N.W.	.00	Number of Cloudy Days, 5.	
21	29.88	75	54	W.	.00	Total Number of Days on which Rain or Snow fell, 11.	
22	29.66	78	72	W.	0.38	Depth of unmelted Snow on ground at end of month, 0.	
23	29.71	66	70	N.W.	0.69	Dates of Auroras, 0.	
24	30.01	63	66	W.	.00	Dates of Solar Halos, 0.	
25	30.06	66	75	W.	0.09	Dates of Lunar Halos, 0.	
26	29.72	77	73	S.W.	0.08	Thunder storm, 5th, 18th, 22d, 23d, 26th.	Dates of Frosts, 0.
27	29.88	74	56	N.W.	0.03	Mean Max. Temp., 80.4.	Mean Min. Temp., 62.5.
28	30.11	70	51	W.	.00	COMPARATIVE TEMPERATURE.	
29	29.93	72	64	S.W.	.00	COMPARATIVE PRECIPITATIONS.	
30	29.93	81	64	W.	.00	1871 . . . . . 71	Inches.
31	29.90	72	62	S.	.00	1872 . . . . . 75	1871 . . . . . 3.24
						1873 . . . . . 73	1872 . . . . . 4.00
						1874 . . . . . 73	1873 . . . . . 3.84
						1875 . . . . . 71	1874 . . . . . 3.47
						1876 . . . . . 74	1875 . . . . . 3.93
						1877 . . . . . 70	1876 . . . . . 5.86
						1878 . . . . . 73	1877 . . . . . 2.27
						1879 . . . . . 70	1878 . . . . . 4.58
						1880 . . . . . 70	1879 . . . . . 3.09
						1881 . . . . . 68	1880 . . . . . 6.86
						1882 . . . . . 72	1881 . . . . . 2.96
						1883 . . . . . 71	1882 . . . . . 3.91
						1884 . . . . . 68	1883 . . . . . 2.73
						1885 . . . . . 71	1884 . . . . . 4.25
						1886 . . . . . 71	1885 . . . . . 1.44
						1887 . . . . . 73	1886 . . . . . 1.51
						1888 . . . . . 68	1887 . . . . . 3.59
						1889 . . . . . 60	1888 . . . . . 1.79
						1890 . . . . . 71	1889 . . . . . 5.80
						1891 . . . . . 69	1890 . . . . . 1.93
						1892 . . . . . 73	1891 . . . . . 3.73
						1893 . . . . . 71	1892 . . . . . 2.56
							1893 . . . . . 1.77
TOTALS .....	—	—	—	—	.177		
MEANS .....	29.92	71.4	68.2	W.	.057		

Average mean temperature for 23 years, 71.0.

Average mean precipitation for 23 years, 3.45.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of August, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of August, 1893, . . . . . 1069  
Population estimated at 487,397. Rate per 1,000 inhabitants, 26.33

Total number . . . . . 1069

### SEX.

Males . . . . . 563

Females . . . . . 506

### CONDITION.

Married . . . . . 271

Single . . . . . 669

Widows . . . . . 80

Widowers . . . . . 43

Unknown . . . . . 6

### COLOR.

White . . . . . 1042

Colored . . . . . 27

Total deaths of children { Under 1 year . . . . . 377  
Under 2 years . . . . . 433  
Under 5 years . . . . . 487

Diarrhœal diseases { Under 1 year . . . . . 166  
Under 2 years . . . . . 180  
Under 5 years . . . . . 188  
All ages . . . . . 210

### NATIVITY.

United States . . . . . 743

Ireland . . . . . 178

England . . . . . 27

Scotland . . . . . 7

Germany . . . . . 9

British America . . . . . 56

Italy . . . . . 4

Other Countries . . . . . 26

Unknown . . . . . 19

### PARENTAGE.

United States . . . . . 234

Irish . . . . . 356

English . . . . . 27

Scotch . . . . . 15

German . . . . . 25

British American . . . . . 81

Italian . . . . . 17

Other Countries . . . . . 111

Mixed . . . . . 97

Unknown . . . . . 106

Still-births during the month . . . . . 57

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for August, 1893.	Total Mortality for August, 1892.	AGE.																			SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.		
I. ZYMOTICS.																									
ALCOHOLISM . . . . .	6	11											1	1	2	2						3	3		
CROUP . . . . .	6	1			1		3	1	1	6											4	2			
CARBUNCLE . . . . .																									
CHOLERA MORBUS . . . . .	7	8											1	2	3	1							7		
CHOLERA INFANTUM . . . . .	177	196	45	44	67	13	5	3		177											96	81			
CEREBRO-SPINAL MENINGITIS . . . . .		1																							
CONGESTIVE FEVER . . . . .																									
DIARRHŒA . . . . .	19	19	3	3	3	1				10					1	1	4		2	1		9	10		
DYSENTERY . . . . .	9	7		1						1					1		2	3				5	2		
DIPHTHERIA . . . . .	28	23			3	4	3	5	4	19	7	1			1						15	13			
ERYSIPELAS . . . . .		1																							
INTERMITTENT FEVER . . . . .	3			1					1	2			1										3		
INFLUENZA . . . . .																									
MEASLES . . . . .	1	2					1			1											1				
PURPURA . . . . .																									
PURPERAL FEVER . . . . .	3	3										1	1	1									3		
PTÆMIA . . . . .																									
REMITTENT FEVER . . . . .																									
RHEUMATISM . . . . .		3																							
SCARLATINA . . . . .	12	14			2	1	2	1		6	5			1							5	7			
SMALL POX . . . . .																									
SYPHILIS (CONGENITAL) . . . . .																									
SYPHILIS . . . . .	1													1									1		
SEPTICÆMIA . . . . .	4	4												1	2	1					1	3			
TONSILLITIS . . . . .																									
TYPHOID FEVER . . . . .	16	15									1	1	5	3	1	2	2				13	2			
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WHOOPING COUGH . . . . .	8	2		2	4	1	1			8											2	6			
YELLOW FEVER . . . . .																									
OTHER ZYMOTIC DISEASES . . . . .		2																							
II. CONSTITUTIONAL.																									
CANCER . . . . .	36	26										1	3	1	12	6	6	6	1		12	24			
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	17		2	3	4	3	1	2	15											11	4			
MARASMUS, SCROFULA AND TABES MESENTERICA	45	51	19	11	15					45											24	21			
PHTHISIS PULMONALIS . . . . .	113	106	1		1	1				3		9	47	21	13	13	4	3			63	50			
OTHER CONSTITUTIONAL DISEASES . . . . .	21	14	1		1	1				3	2	1	5	6	2		2	1			9	12			



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AUGUST, 1893.

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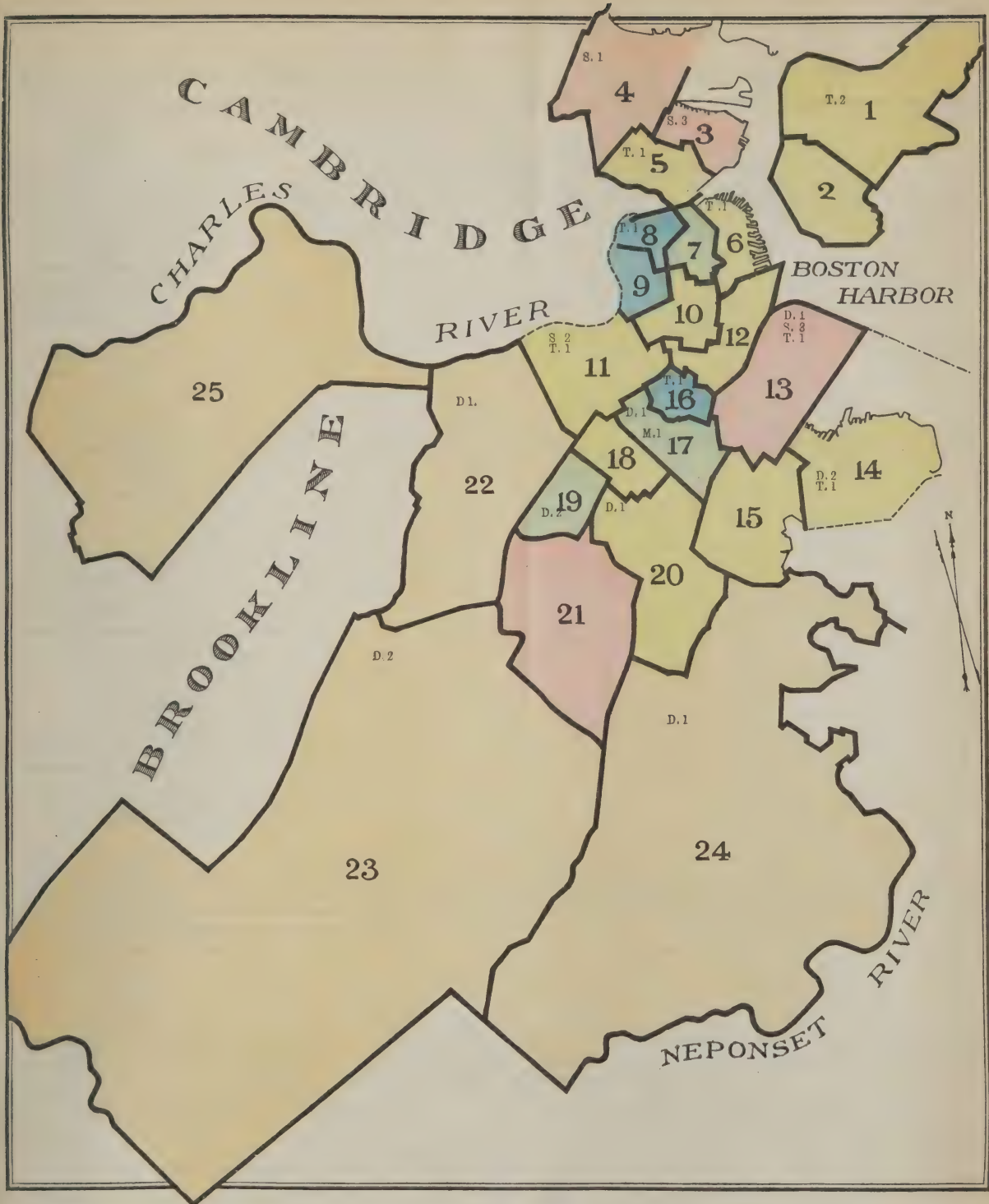
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Reservoir Capacity, 5,000,000,000 gallons.





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III. LOCAL.																										
APOPLEXY . . . . .	25	25											1	3	2	3	11	3	2				13	12		
BRIGHT'S DISEASE . . . . .	12	12									1	2				3	4		2			6				
BRONCHITIS . . . . .	28	15	1	2	3	3		1		10			2	2	1	5	4	4				16	12			
HEART DISEASE . . . . .	58	57	1						2	3	1		8	5	9	5	19	7	1			29	29			
MENINGITIS . . . . .	35	31	6	2	6	11	1	1	1	28	2	2		2	1							25	10			
NEPHRITIS . . . . .	14	16										1	1	1		2	1	2	6			7	7			
PLEURISY . . . . .																										
PNEUMONIA . . . . .	30	24			3	2	2	1		8		1	4	3	7	3	2		2			19	11			
OTHER LOCAL DISEASES . . . . .	192	176	27	14	23	12	3			79	7	3	13	10	12	26	17	13	7			88	104			
IV. DEVELOPMENTAL.																										
CYANOSIS . . . . .	2	1	2							2												1	1			
INANITION . . . . .	16	7	11	2	3					16												10	6			
OLD AGE . . . . .	32	25														1	1	7	15	8		13	19			
PREMATURE BIRTH . . . . .	20	21	20							20												12	8			
PUERPL DISEASES (not including Puerpl Fever)	8											1	4	3									8			
OTHER DEVELOPMENTAL DISEASES . . . . .	19	34	17	1						18						1						10	9			
V. VIOLENT.																										
ACCIDENTAL . . . . .	40	39			3			2	2	7	1	1	7	6	7	4	2	3	2			35	5			
HOMICIDAL . . . . .	2	1												2								1	1			
SUICIDAL . . . . .	6	3												1	1		4					5	1			
OTHER VIOLENT CAUSES . . . . .	2													1			1						2			
UNKNOWN CAUSES . . . . .	1	1									1												1			
TOTAL FROM ALL CAUSES . . . . .	1069	1014	154	85	138	56	25	16	13	437	29	25	102	75	82	81	84	63	32	9		563	506			
TOTAL FROM ZYMOTIC DISEASES . . . . .	297	312																								
INCLUDING TUBERCULAR DISEASES . . . . .	440	476	48	51	80	20	15	10	6	230	13	3	7	10	10	9	9	3	2	1		154	143			
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	230	214	21	13	20	5	4	1	2	66	2	11	55	27	27	19	12	10	1			119	111			
“ “ LOCAL do. . . . .	394	356	35	18	35	23	6	3	3	123	12	9	29	25	37	47	55	40	12			203	191			
“ “ DEVELOPMENTAL do. . . . .	97	88	50	3	3					56		1	4	3		2	1	7	15	8		46	51			
“ “ VIOLENT CAUSES . . . . .	50	43				3		2	2	7	1	1	7	10	8	4	7	3	2			41	9			

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of August, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING AUGUST, 1893.			CASES REPORTED DURING AUGUST, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	104	....	Diphtheria . . . . .	78	....
Measles . . . . .	74	....	Measles . . . . .	61	....
Small Pox . . . . .	....	....	Small Pox . . . . .	1	....
Scarlatina . . . . .	141	1	Scarlatina . . . . .	86	....
Typhoid Fever . . . . .	89	..	Typhoid Fever . . . . .	89	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of August, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.84	71	84	S.W.	.01	Mean Barometer, 29.976.
2	30.12	72	53	N.W.	.00	Highest Barometer, 30.269, on the 23d.
3	30.18	71	56	S., N.W.	.00	Lowest Barometer, 29.679, on the 24th.
4	30.08	72	63	S.	.00	Monthly Range of Barometer, 0.590.
5	29.91	75	94	N.	1.87	Mean Temperature, 69.6.
6	29.98	72	64	W.	1.07	Highest Temperature, 93.0, on the 25th.
7	29.76	69	88	E., W., N.W.	1.21	Lowest Temperature, — 53.0, on the 14th.
8	29.96	72	70	N.W.	.00	Monthly Range of Temperature, 40.0.
9	30.14	74	66	N.W.	.00	Greatest Daily Range of Temperature, 25.0 on the 25th.
10	30.07	80	70	S.W.	.00	Least Daily Range of Temperature, 4.0 on the 17th.
11	29.95	72	86	E.	.00	Mean Daily Range of Temperature, 14.4.
12	29.83	66	86	E.	.00	Mean Daily Dew-point, 59.4.
13	30.00	66	57	N.W.	0.01	Mean Daily Relative Humidity, 69.4.
14	30.00	64	43	N.W.	.00	Prevailing Direction of Wind, N.W.
15	29.92	70	50	N.W.	.00	Total Movement of Wind, 7,585 Miles.
16	29.96	62	70	N.W.	.00	Highest Velocity of Wind and Direction, S. 48 miles on the 29th.
17	29.87	64	64	E.	.0	Number of Foggy Days, 0.
18	29.82	52	90	N.E.	.03	Number of Clear Days, 9.
19	29.98	62	82	E.	.02	Number of Fair Days, 14.
20	30.06	64	89	E.	.02	Number of Cloudy Days, 8.
21	29.82	60	89	N.E.	1.65	Total Number of Days on which Rain or Snow fell, 13.
22	30.11	70	78	W.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	30.24	67	85	E.	.00	Dates of Auroras, 0.
24	29.78	68	85	E., S.W.	.13	Dates of Solar Halos, 0.
25	29.93	80	71	S.W.	.00	Dates of Lunar Halos, 0.
26	30.00	80	65	E.	.00	Thunder storm, 8th, 7th.
27	30.06	70	89	E.	.07	Mean Max. Temp., 76.7.
28	30.01	78	86	S.W.	.00	Dates of Frosts, 0.
29	29.72	76	77	S., S.W.	.24	Mean Min. Temp., 62.4.
30	30.04	68	58	W.	.00	COMPARATIVE TEMPERATURE.
31	30.14	68	58	W.	.00	COMPARATIVE PRECIPITATIONS.
TOTALS.....	—	—	—	—	6.42	
MEANS .. ....	29.976	69.6	59.4	N.W.	.207	

Average mean temperature for 23 years, 69.0.

Average mean precipitation for 23 years, 4.52.

\*T indicates trace of precipitation.



# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of September, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of September, 1893, . . . . . 943

Population estimated at 487,397. . . . . Rate per 1,000 inhabitants, 23.21

Total number . . . . . 943

### SEX.

Males . . . . . 469

Females . . . . . 474

### CONDITION.

Married . . . . . 211

Single . . . . . 612

Widows . . . . . 74

Widowers . . . . . 31

Unknown . . . . . 15

### COLOR.

White . . . . . 925

Colored . . . . . 18

Total deaths of children { Under 1 year . . . . . 300  
Under 2 years . . . . . 372  
Under 5 years . . . . . 418

Diarrhoeal diseases { Under 1 year . . . . . 100  
Under 2 years . . . . . 119  
Under 5 years . . . . . 121  
All ages . . . . . 139

### NATIVITY.

United States . . . . . 654

Ireland . . . . . 142

England . . . . . 20

Scotland . . . . . 10

Germany . . . . . 16

British America . . . . . 50

Italy . . . . . 4

Other Countries . . . . . 22

Unknown . . . . . 15

### PARENTAGE.

United States . . . . . 205

Irish . . . . . 204

English . . . . . 22

Scotch . . . . . 16

German . . . . . 26

British American . . . . . 66

Italian . . . . . 15

Other Countries . . . . . 120

Mixed . . . . . 96

Unknown . . . . . 83

Still-births during the month . . . . . 51

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for September, 1893.	Total Mortality for September, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	8	1													1	2						3		
CROUP . . . . .	1	3					1			1													1	
CARBUNCLE . . . . .		1																						
CHOLERA MORBUS . . . . .	2	2									1							1					2	
CHOLERA INFANTUM . . . . .	106	57	22	24	40	18			1	105	1											56	50	
CEREBRO-SPINAL MENINGITIS . . . . .																								
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	18	20	4	3	6	1				14			1				1	1	1			5	13	
DYSENTERY . . . . .	13	5	1					1		2			1	3	1		2	4				4	9	
DIPHTHERIA . . . . .	31	31		1	6	3	5	3	18	9	3				1							14	17	
ERYSIPELAS . . . . .	2				1				1	2												1	1	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .																								
MEASLES . . . . .	2				1	1				2													2	
PURPURA . . . . .	1			1						1												1		
PUERPERAL FEVER. . . . .	2	1											1	1									2	
PYEMIA. . . . .	2	3												1			1					1	1	
REMITTENT FEVER . . . . .		1																						
RHEUMATISM . . . . .	5	2	1							1			2	1	1							1	4	
SCARLATINA . . . . .	12	9				7	1		1	9	2	1										5	7	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .	1		1							1												1		
SYPHILIS . . . . .																								
SEPTICÆMIA . . . . .	1	1													1								1	
TONSILLITIS . . . . .																								
TYPHOID FEVER. . . . .	14	18									1	1	4	6	2							6	8	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	6	6		1	1	1	2			5	1											3	3	
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		3																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	27	33										1	2	3	8	11	2					5	22	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	26	9	3	1	13	4	2			23	2				1							12	14	
MAKASMUS, SCROFULA AND TABES MESENTERICA . . . . .	58	50	22	17	8	5	1	1		54	1		1	1		1						31	27	
PARITISIS PULMONALIS . . . . .	118	160			2	1				3		11	38	42	11	8	4	1				51	67	
OTHER CONSTITUTIONAL DISEASES . . . . .	10	25			1	2			1	4		2	2	3	1		1					6	7	



# SANITARY STATISTICS OF BOSTON, MASS.

## SEPTEMBER, 1893.

STREET GRADES BY WARDS.		
WARDS.	HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward 1	86	16
" 2	64	16
" 3	74	17
" 4	108	16
" 5	68	17
" 6	55	15
" 7	48	15
" 8	42	15
" 9	106	17
" 10	106	17
" 11	31	14
" 12	31	15
" 13	31	16
" 14	71	16
" 15	95	14
" 16	24	12
" 17	18	13
" 18	18	16
" 19	60	17
" 20	116	14
" 21	149	28
" 22	164	17
" 23	301	35
" 24	165	14
" 25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses, (three or more families), 10,763.

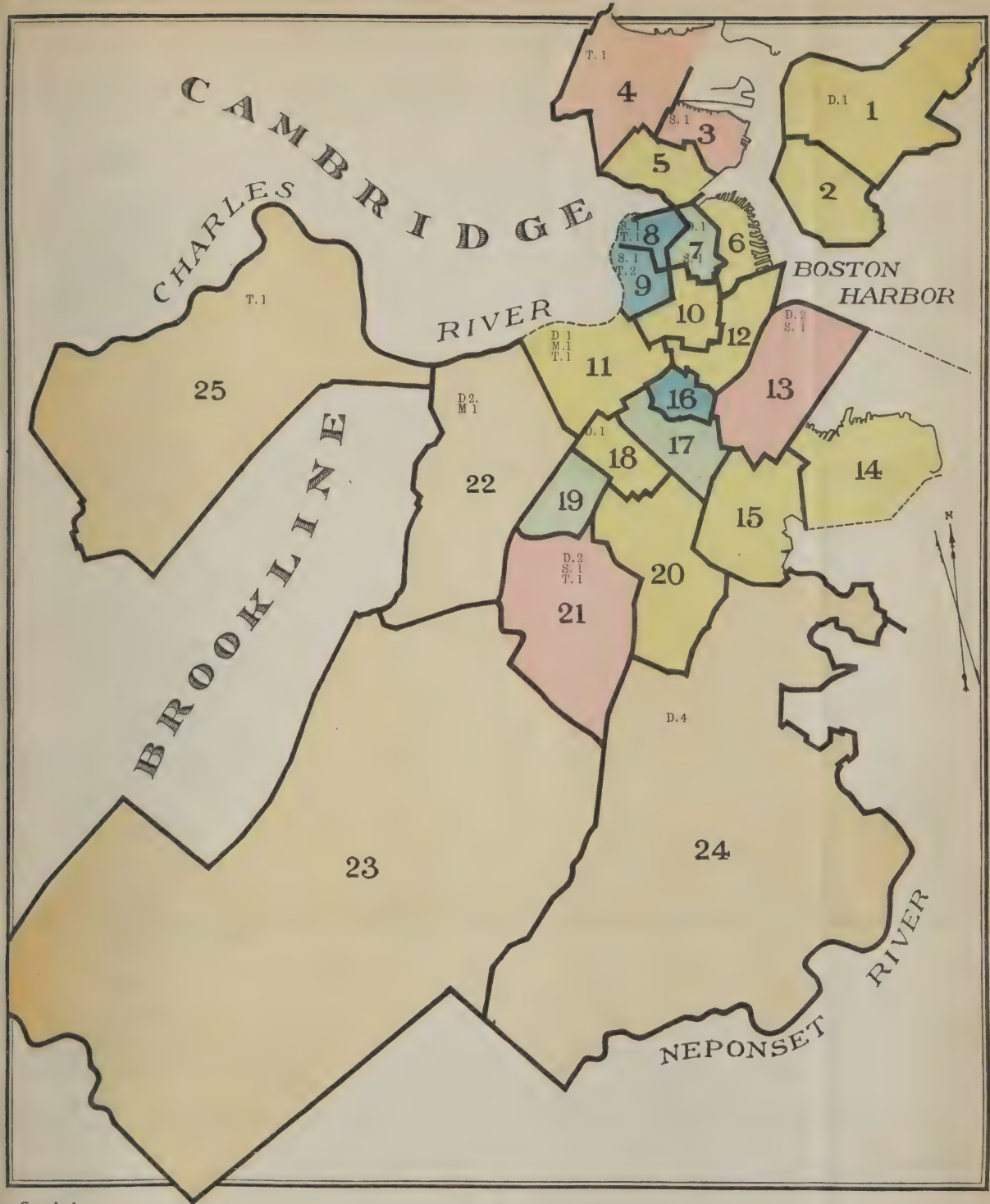
Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.





Symbols:

D—Diphtheria.  
S—Scarlatina.  
T—Typhoid Fever.  
M—Measles.

WARD MAP OF BOSTON,

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scariatina, Typhoid Fever and Measles.

CITY HOSPITAL,

{ D. - 17.  
S. - 6.  
T. - 7.  
M. - .

<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span>	Under 20 inhabitants to a square acre.
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span>	From 33 to 49 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span>	" 52 to 80 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border:1px solid black;"></span>	" 111 to 123 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:teal; border:1px solid black;"></span>	" 151 to 213 " " "



# of September, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for September, 1893.	Total Mortality for September, 1892.	AGE.																		SEX.			
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
III. LOCAL.																								
ATOPLECTY . . . . .	27	27										2	2	1	8	5	5	4				12	15	
BRIGHT'S DISEASE . . . . .	13	11										1		3	2	5	1	1				7		
BRONCHITIS . . . . .	22	16	5		3	2	3		1	14	1		1	1			1	4				11	11	
HEART DISEASE . . . . .	49	49	1							1	2	4	4	8	2	11	5	7	4	1		19	30	
MENINGITIS . . . . .	32	18	3	4	5	8	4			24			2	5				1			21	11		
NEPHRITIS . . . . .	15	10									1	2	1	4	2	2	1	2			8	7		
PLEURISY . . . . .																								
PNEUMONIA . . . . .	46	46	3	2	3	4	3	1		16	2	2	3	2	6	5	5	2	3		24	22		
OTHER LOCAL DISEASES . . . . .	161	167	17	16	20	10		3	3	69	2	5	12	13	19	18	13	4	6		93	68		
IV. DEVELOPMENTAL.																								
CYANOSIS . . . . .	1	1	1							1													1	
INANITION . . . . .	10	17	6	2	1	1				10											5			
OLD AGE . . . . .	15	9															1	4	8	2		7	8	
PREMATURE BIRTH . . . . .	17	7	16	1						17											11	6		
PUERP'L DISEASES (not including Puerp'l Fever)	2	2										2										2		
OTHER DEVELOPMENTAL DISEASES . .	24	18	15	1	1				1	18							2	2	2		12	12		
V. VIOLENT.																								
ACCIDENTAL . . . . .	36	39					1	1	1	3	1	6	10	4	3	6		1	2		28	8		
HOMICIDAL . . . . .		1																						
SUICIDAL . . . . .	7	2											1	2	1	3					4	3		
OTHER VIOLENT CAUSES . . . . .	2	1												1	1						1	1		
UNKNOWN CAUSES . . . . .		2																						
TOTAL FROM ALL CAUSES . . . . .	943	833	121	74	105	72	21	12	13	418	24	40	90	101	61	72	59	42	31	3	499	474		
TOTAL FROM ZYMOTIC DISEASES . . . . .	222	169																						
INCLUDING TUBERCULAR DISEASES . . . . .	411	317	29	30	48	35	7	6	6	161	14	6	9	13	8		4	6	1		101	121		
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	242	226	25	18	24	12	3	1	1	84	1	15	42	48	15	17	17	3			105	137		
" " LOCAL do. . . . .	365	344	29	22	31	24	10	4	4	124	8	13	26	35	33	46	35	26	18	1	195	170		
" " DEVELOPMENTAL do. . . . .	69	54	38	4	2	1			1	46		2				3	6	10	2		35	34		
" " VIOLENT CAUSES . . . . .	45	43					1	1	1	3	1	6	11	7	5	9		1	2		33	12		

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of September, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING SEPTEMBER, 1893.			CASES REPORTED DURING SEPTEMBER, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	91	....	Diphtheria . . . . .	79	....
Measles . . . . .	27	1	Measles . . . . .	31	9
Small Pox . . . . .	....	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	179	....	Scarlatina . . . . .	100	....
Typhoid Fever . . . . .	164	..	Typhoid Fever . . . . .	143	....
Typhus Fever . . . . .	....	..	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of September, 1898, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.10	60	74	N.E.	T	Mean Barometer, 30.03.
2	29.90	64	80	W.	.37	Highest Barometer, 30.395, on the 12th.
3	29.95	58	65	W.	.00	Lowest Barometer, 29.626, on the 16th.
4	29.92	60	60	N.W.	.00	Monthly Range of Barometer, 0.769.
5	29.87	66	71	S.W.	.00	Mean Temperature, 60.0.
6	30.01	64	62	N.W.	.00	Highest Temperature, 80.0, on the 5th.
7	29.98	60	82	S.	.02	Lowest Temperature, — 43.0, on the 30th.
8	30.02	62	68	N.W.	.32	Monthly Range of Temperature, 37.0.
9	30.15	62	73	W.	.00	Greatest Daily Range of Temperature, 29.0 on the 5th.
10	30.04	66	76	N.	.00	Least Daily Range of Temperature, 7.0 on the 27th, 29th.
11	30.30	55	61	E.	.00	Mean Daily Range of Temperature, 15.6.
12	30.38	60	70	S.W.	.00	Mean Daily Dew-point, 51.2.
13	30.32	62	80	S.W.	.00	Mean Daily Relative Humidity, 77.3.
14	30.22	68	84	S., S.W.	.00	Prevailing Direction of Wind, W.
15	30.04	70	89	S.	.02	Total Movement of Wind, 7,584 Miles.
16	29.71	64	90	S., S.W.	.54	Highest Velocity of Wind and Direction, 44 miles N.W. on the 7th.
17	29.82	58	84	W.	.01	Number of Foggy Days, 1.
18	29.92	58	83	W.	T	Number of Clear Days, 14.
19	29.75	64	92	W.	.19	Number of Fair Days, 5.
20	29.86	66	82	W.-N.W.	.00	Number of Cloudy Days, 11.
21	30.06	56	74	N.W.	.00	Total Number of Days on which Rain or Snow fell, 16.
22	29.92	57	89	S.	T	Depth of unmelted snow on ground at end of month, 0.
23	29.88	64	92	E.-W.	.02	Dates of Auroras, 8th.
24	30.06	62	73	N.W.	.00	Dates of Solar Halos, 0.
25	29.05	62	02	S.	.05	Dates of Lunar Halos, 21st.
26	30.31	52	73	N.W.	.82	Thunder storm, 7th.
27	30.29	50	82	N.	T	Mean Max. Temp., 67.8
28	30.12	52	80	N.	.00	Dates of Frosts, 0.
29	30.06	48	79	N.	.01	Mean Min. Temp., 52.2.
30	30.00	52	60	N.W.	.02	
TOTALS.....	—	—	—	—	1.59	
MEANS.....	30.03	60.0	77.3	W.	.053	

COMPARATIVE TEMPERATURE.	COMPARATIVE PRECIPITATIONS.
1871 . . . . . 59	1871 . . . . . 1.30
1872 . . . . . 64	1872 . . . . . 6.04
1873 . . . . . 62	1873 . . . . . 2.91
1874 . . . . . 64	1874 . . . . . 2.05
1875 . . . . . 59	1875 . . . . . 3.12
1876 . . . . . 64	1876 . . . . . 3.84
1877 . . . . . 63	1877 . . . . . 3.60
1878 . . . . . 61	1878 . . . . . 3.47
1879 . . . . . 64	1879 . . . . . 1.84
1880 . . . . . 66	1880 . . . . . 2.36
1881 . . . . . 63	1881 . . . . . 2.50
1882 . . . . . 59	1882 . . . . . 10.93
1883 . . . . . 65	1883 . . . . . 1.50
1884 . . . . . 60	1884 . . . . . 0.31
1885 . . . . . 63	1885 . . . . . 1.70
1886 . . . . . 60	1886 . . . . . 2.73
1887 . . . . . 60	1887 . . . . . 0.97
1888 . . . . . 63	1888 . . . . . 6.77
1889 . . . . . 63	1889 . . . . . 3.19
1890 . . . . . 67	1890 . . . . . 5.04
1891 . . . . . 62	1891 . . . . . 2.29
1892 . . . . . 60	1892 . . . . . 1.90
1893 . . . . . 60	1893 . . . . . 1.59

Average mean temperature for 23 years, 62.0.

Average precipitation for 23 years, 3.00.

\*T indicates trace of precipitation.



3461.9

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of October, 1893.

With an enumeration of the more prominent causes ; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
*Chairman.*

Deaths during the month of October, 1893, . . . . .	967
Population estimated at 487,397.	Rate per 1,000 inhabitants, 23.80

Total number . . . . . 967

### SEX.

Males . . . . .	482
Females . . . . .	485

### CONDITION.

Married . . . . .	261
Single . . . . .	573
Widows . . . . .	83
Widowers . . . . .	35
Unknown . . . . .	15

### COLOR.

White . . . . .	950
Colored . . . . .	17

Total deaths of children	{	Under 1 year . . . . .	232
		Under 2 years . . . . .	295
		Under 5 years . . . . .	368

Diarrhoeal diseases	{	Under 1 year . . . . .	35
		Under 2 years . . . . .	42
		Under 5 years . . . . .	42
		All ages . . . . .	49

### NATIVITY.

United States . . . . .	661
Ireland . . . . .	184
England . . . . .	15
Scotland . . . . .	3
Germany . . . . .	13
British America . . . . .	46
Italy . . . . .	2
Other Countries . . . . .	26
Unknown . . . . .	17

### PARENTAGE.

United States . . . . .	203
Irish . . . . .	352
English . . . . .	15
Scotch . . . . .	10
German . . . . .	25
British American . . . . .	58
Italian . . . . .	20
Other Countries . . . . .	86
Mixed . . . . .	89
Unknown . . . . .	109

Still-births during the month . . . . .	38
---	----

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for October, 1883.	Total Mortality for October, 1882.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	7	5											2	2	2		1						3	4
CROUP . . . . .	5	6		1	1		2		4	1												3	2	
CARBUNCLE . . . . .	1														1							1		
CHOLERA MORBUS . . . . .	1															1						1		
CHOLERA INFANTUM . . . . .	30	17	8	6	12	4				30												22	8	
CEREBRO-SPINAL MENINGITIS . . . . .	1					1				1													1	
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	11	2	4	3	1	2				10							1					9	2	
DYSENTERY . . . . .	7	1			1	1				2				1		1	1	1	1			2	5	
DIPHTHERIA . . . . .	72	35			3	9	13	17	9	51	14	4	1	1			1					35	37	
ERYSIPELAS . . . . .	2	2			1					1					1							1	1	
INTERMITTENT FEVER . . . . .	1															1							1	
INFLUENZA . . . . .	1	1																1				1		
MEASLES . . . . .	2	1				1				1		1										2		
PURPURA . . . . .																								
PURPERAL FEVER. . . . .	1														1								1	
PTÆMIA . . . . .	2															1		1				1	1	
REMITTENT FEVER . . . . .	1												1										1	
RHEUMATISM . . . . .	3	1														1		2				2	1	
SCARLATINA . . . . .	24	24	1		3	4	3	3	4	18	4	1	1									10	14	
SMALL POX . . . . .																								
SYPHILIS (CONGENITAL) . . . . .		1																						
SYPHILIS . . . . .	1														1							1		
SEPTICÆMIA . . . . .	4	3										1		1	1		1					1	3	
TONSILLITIS . . . . .		2																						
TYPHOID FEVER. . . . .	26	29	1						2	3		5	11	2	2	2		1				16	10	
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	4		3		1					4												2	2	
YELLOW FEVER. . . . .																								
OTHER ZYMOTIC DISEASES . . . . .		3																						
II. CONSTITUTIONAL.																								
CANCER . . . . .	33	42											4		9	10	6	4				7	26	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	20	20	3	3	4	4			1	15	1	2			2							10	10	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	54	31	20	13	10	7	2			52			1			1						30	24	
PHTHISIS PULMONALIS . . . . .	115	110		1	3	1				5		14	32	38	16	8	1	1				55	60	
OTHER CONSTITUTIONAL DISEASES . . . . .	14	17			1	1	1			3	2	3	4		1	1						12	2	







of October, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	AGE.																				SEX.	
	Total Mortality for October, 1893.	Total Mortality for October, 1892.																			Males.	Females.
			Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.		
III. LOCAL.																						
Apoplexy . . . . .	35	29				1			1				2	6	7	9	7	2	1		18	17
Bright's Disease . . . . .	17	11							1	1			1	2	1	5	5	2			12	5
Bronchitis . . . . .	35	48	3	2	5	3	2			15			1	1	3	5	5	3	1	1	15	20
Heart Disease . . . . .	62	55		1		1				2		8	5	8	10	3	14	11	6		25	37
Meningitis . . . . .	26	13	3	2	6	5	2	2		20		1	1		1	1		1			12	13
Nephritis . . . . .	14	11											3	3	2	2	3		1		10	4
Pleurisy . . . . .		3																				
Pneumonia . . . . .	68	45	2	2	5	9	4	1		23	1	2	5	2	6	11	9	5	3	1	31	37
Other Local Diseases . . . . .	133	130	20	8	9	6	1	2	1	47	1	2	15	14	11	13	16	14	1		60	73
IV. DEVELOPMENTAL.																						
Cyanosis . . . . .	1	1	1							1												1
Inanition . . . . .	9	8	7		1	1				9											7	2
Old Age . . . . .	28	18														1	4	7	12	4	14	14
Premature Birth . . . . .	19	13	19							19											10	9
Puerp'l Diseases (not including Puerp'l Fever)	1	2												1								1
Other Developmental Diseases . . . . .	35	16	26	1	1					28					2		1	3	1		11	24
V. VIOLENT.																						
Accidental . . . . .	30	36	1			1				2		1	7	8	4	2	3	2	1		24	6
Homicidal . . . . .		1																				
Suicidal . . . . .	10	8											2	3	3	1		1			6	4
Other Violent Causes . . . . .	2	1												1		1						2
Unknown Causes . . . . .		1																				
TOTAL FROM ALL CAUSES . . . . .	907	803	122	43	67	63	28	27	18	368	24	40	97	91	86	77	82	66	29	7	482	485
TOTAL FROM ZYMOTIC DISEASES . . . . .	207	133																				
INCLUDING TUBERCULAR DISEASES . . . . .	353	292	17	10	22	23	16	22	15	125	19	12	16	8	9	6	6	5	1		113	94
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	236	220	23	17	18	13	3		1	75	3	19	41	38	28	19	8	5			114	122
" " LOCAL do. . . . .	389	345	28	15	25	25	9	5	2	109	2	8	31	32	40	47	60	43	14	3	183	206
" " DEVELOPMENTAL do. . . . .	93	58	53	1	2	1				57				1	2	1	5	10	13	4	42	61
" " VIOLENT CAUSES . . . . .	42	46	1			1				2		1	9	12	7	4	3	3	1		30	12

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of October, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING OCTOBER, 1893.			CASES REPORTED DURING OCTOBER, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	196	....	Diphtheria . . . . .	144	....
Measles . . . . .	34	....	Measles . . . . .	64	....
Small Pox . . . . .	....	1	Small Pox . . . . .	....	....
Scarlatina . . . . .	308	....	Scarlatina . . . . .	133	....
Typhoid Fever . . . . .	148	....	Typhoid Fever . . . . .	143	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION. BOSTON.

For the month of October, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.71	52	62	N.W.	T	Mean Barometer, 30.12.
2	29.90	55	88	E.	.00	Highest Barometer, 30.60, on the 19th.
3	30.10	55	82	E.	T	Lowest Barometer, 29.46, on the 14th.
4	30.04	53	92	N.E.	.01	Monthly Range of Barometer, 1.14.
5	30.04	58	80	N.W.	T	Mean Temperature, 55.0.
6	30.14	57	84	E.	.00	Highest Temperature, 79.0, on the 9th.
7	30.01	65	86	S.	T	Lowest Temperature, — 30.0, on the 31st.
8	30.02	62	88	W.	.00	Monthly Range of Temperature, 49.0.
9	29.80	66	55	S.W.	T	Greatest Daily Range of Temperature, 28.0 on the 17th.
10	30.08	55	54	N.W.	.00	Least Daily Range of Temperature, 4.0 on the 4th.
11	30.24	53	63	N.W.	.00	Mean Daily Range of Temperature, 14.1.
12	30.23	61	70	W.	.00	Mean Daily Dew-point, 44.0.
13	30.08	60	78	S.W.	.00	Mean Daily Relative Humidity, 72.0.
14	29.49	66	84	S.	.80	Prevailing Direction of Wind, S.W.
15	29.84	57	51	S.W.	.00	Total Movement of Wind, 7,959 Miles.
16	30.26	46	64	N.W.	.00	Highest Velocity of Wind and Direction, 49 miles S. on the 14th.
17	30.33	50	62	W.	.00	Number of Foggy Days, 0.
18	30.50	50	65	E.	.00	Number of Clear Days, 16.
19	30.38	46	68	E.	.00	Number of Fair Days, 10.
20	30.40	54	77	S.	.00	Number of Cloudy Days, 5.
21	30.22	62	80	S.W.	.00	Total Number of Days on which Rain or Snow fell, 5.
22	30.37	56	75	E.	.00	Depth of unmelted Snow on ground at end of month, 0.
23	30.30	56	97	N.E.	.40	Dates of Auroras, 9th, 11th.
24	29.90	65	92	S.W.	1.40	Dates of Solar Halos, 13th.
25	29.06	60	72	N.W.	.00	Dates of Lunar Halos, 22d.
26	30.26	46	68	E.	.00	Thunder storm, 0.
27	30.10	54	83	S.	.00	Mean Max. Temp., 62.0
28	29.80	56	77	W.	.24	Dates of Frosts, 17th.
29	30.08	45	56	W.	.00	Mean Min. Temp., 48.0.
30	30.40	40	58	N.W.	.00	COMPARATIVE TEMPERATURE.
31	30.43	37	53	N.W.	.00	COMPARATIVE PRECIPITATIONS.
TOTALS .....	—	—	—	—	2.04	
MEANS .....	30.12	55.0	72.0	S.W.	.094	

Average mean temperature for 23 years, 52.0.

Average precipitation for 23 years, 4.06.

\*T indicates trace of precipitation.

3761.9

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of November, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,

*Chairman.*

Deaths during the month of November, 1893, . . . . . 856

Population estimated at 487,397.

Rate per 1,000 inhabitants, 21.07

Total number . . . . . 856

### SEX.

Males . . . . . 426

Females . . . . . 430

### CONDITION.

Married . . . . . 245

Single . . . . . 485

Widows . . . . . 70

Widowers . . . . . 52

Unknown . . . . . 4

### COLOR.

White . . . . . 839

Colored . . . . . 17

Total deaths of children	{	Under 1 year . . . . .	181
		Under 2 years . . . . .	221
		Under 5 years . . . . .	293

Diarrhoeal diseases	{	Under 1 year . . . . .	9
		Under 2 years . . . . .	11
		Under 5 years . . . . .	11
		All ages . . . . .	15

### NATIVITY.

United States . . . . . 582

Ireland . . . . . 162

England . . . . . 9

Scotland . . . . . 12

Germany . . . . . 15

British America . . . . . 45

Italy . . . . . 12

Other Countries . . . . . 11

Unknown . . . . . 8

### PARENTAGE.

United States . . . . . 212

Irish . . . . . 322

English . . . . . 11

Scotch . . . . . 11

German . . . . . 16

British American . . . . . 56

Italian . . . . . 14

Other Countries . . . . . 61

Mixed . . . . . 69

Unknown . . . . . 84

Still-births during the month . . . . . 50

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for November, 1893.	Total Mortality for November, 1892.	AGE.																	SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 6 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.
I. ZYMOTICS.																						
ALCOHOLISM . . . . .	6	5												2	2	1		1			4	2
CROUP . . . . .	4	12							1		1	3									1	3
CARRUNCLE . . . . .		1																				
CHOLERA MORBUS . . . . .	1	1															1				1	
CHOLERA INFANTUM . . . . .	9	3		2	6	1				9											5	4
CEREBRO-SPINAL MENINGITIS . . . . .	2							1		1		1									1	1
CONGESTIVE FEVER . . . . .																						
DIARRHŒA . . . . .	4	4		1		1				2				1				1			3	1
DYSENTERY . . . . .	1	4															1				1	
DIPHTHERIA . . . . .	58	46		1	3	9	14	5	10	42	12	4								35	23	
ERYSIPELAS . . . . .	2	1	1	1						2										1	1	
INTERMITTENT FEVER . . . . .																						
INFLUENZA . . . . .	3	2		1						1					1				1		2	1
MEASLES . . . . .		4																				
PURPURA . . . . .																						
PUERPERAL FEVER . . . . .		1																				
PYŒMIA . . . . .		1																				
REMITTENT FEVER . . . . .																						
RHEUMATISM . . . . .		1																				
SCARLATINA . . . . .	14	26				2	4	2	1	9	2	3								7	7	
SMALL POX . . . . .																						
SYPHILIS (CONGENITAL) . . . . .	1	3	1							1										1		
SYPHILIS . . . . .		1																				
SEPTICŒMIA . . . . .	3												2	1							3	
TONSILLITIS . . . . .	1	2							1	1										1		
TYPHOID FEVER . . . . .	17	18										5	4	5	1	2				13	4	
TYPHUS FEVER . . . . .																						
WHOOPING COUGH . . . . .	4	2	3			1				4										2	2	
YELLOW FEVER . . . . .																						
OTHER ZYMOTIC DISEASES . . . . .	3	2			1					1	1		1									3
II. CONSTITUTIONAL.																						
CANCER . . . . .	16	27													3	5	6	1	1		8	8
HYDROCEPHALUS AND TUBERC. MENINGITIS . .	16	10		1	2	2	5	1	2	13	2		1							8	8	
MARASMUS, SCROFULA AND TABES MESENTERICA	25	21	11	5	8	1				25										10	15	
PHTHISIS PULMONALIS . . . . .	103	125	1	1	1	1			1	5	1	9	32	24	19	10	2		1	53	50	
OTHER CONSTITUTIONAL DISEASES . . . . .	9	24	2				1	2		5		3	1							4	5	





# SANITARY STATISTICS OF BOSTON, MASS.

## NOVEMBER, 1893.

STREET GRADES BY WARDS.			
WARDS.		HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward	1	86	16
"	2	64	16
"	3	74	17
"	4	108	16
"	5	68	17
"	6	55	15
"	7	48	15
"	8	42	15
"	9	106	17
"	10	106	17
"	11	31	14
"	12	31	15
"	13	31	16
"	14	71	16
"	15	95	14
"	16	24	12
"	17	18	13
"	18	18	16
"	19	60	17
"	20	116	14
"	21	149	28
"	22	164	17
"	23	301	35
"	24	165	14
"	25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

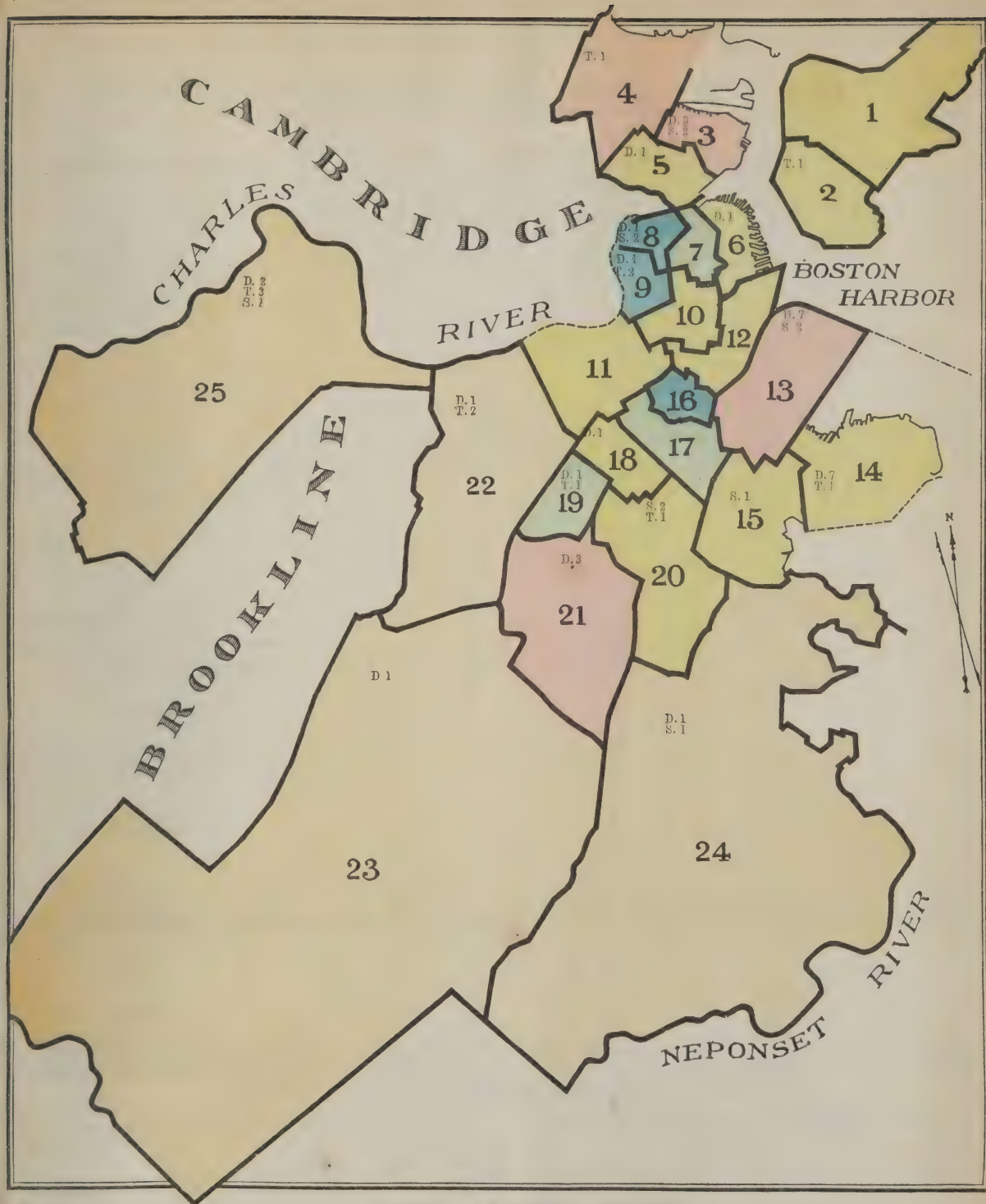
" " Tenement Houses, (three or more families), 10,763.

Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.



Symbols:

D—Diphtheria.

S—Scarlatina.

T—Typhoid Fever.

M—Measles.

## WARD MAP OF BOSTON,

Showing the density of population on basis of assessed polls of 1892, with the deaths from Diphtheria, Scarletina, Typhoid Fever and Measles.

CITY HOSPITAL,

{ D.—27.  
S.—2.  
T.—5.  
M.—.

<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow;"></span>	Under 20 inhabitants to a square acre.
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral;"></span>	From 33 to 49 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span>	" 52 to 80 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span>	" 111 to 123 " " "
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	" 151 to 213 " " "





# of November, Classified by Cause, Age and Sex.

CAUSES OF DEATH.	Total Mortality for		AGE.																			SEX.			
	November, 1893.		November, 1892.																			Males.	Females.		
					Under 3 mos.	3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.			90 years and under 100 yrs.	100 years and over.
III. LOCAL.																									
APoplexy . . . . .	25	37	1		1							2				2	1	6	4	5	3	2		8	17
Bright's Disease . . . . .	10	21													1	2	3	2	2					3	
Bronchitis . . . . .	34	54	3	2	7	3					15				3	2	2	3	3	3	3			20	14
Heart Disease . . . . .	58	91	5	1			1				7	3	1	2	4	4	12	12	10	3				30	28
Meningitis . . . . .	10	8		1	3	3	1		1	9	3				4	1		1		1				11	8
Nephritis . . . . .	23	16		1						1	2	1	3	2	3	2	3	5	2					8	15
Pleurisy . . . . .		1																							
Pneumonia . . . . .	103	83	4	4	9	6	5	1	2	31	7	3	6	7	12	10	15	6	6					43	60
Other Local Diseases . . . . .	153	115	21	12	6	7	3	3	2	54			5	8	12	20	14	19	19	2				75	78
IV. DEVELOPMENTAL.																									
Cyanosis . . . . .		4																							
Inanition . . . . .	4	10	4								4													2	2
Old Age . . . . .	22	16																1	7	10	4			6	16
Premature Birth . . . . .	17	24	17								17													7	10
Puerp'l Diseases (not including Puerp'l Fever)	2	1												1	1										2
Other Developmental Diseases . . . . .	30	19	17	2	2	2				23						2	3			1	1			14	16
V. VIOLENT.																									
Accidental . . . . .	37	37	1			1				2		1	9	4	4	8	4	4	1					28	9
Homicidal . . . . .	2	2															2							2	
Suicidal . . . . .	7	7												2		3	1	1						6	1
Other Violent Causes . . . . .	4						1			1				2					1					1	3
Unknown Causes . . . . .	4	2	3	1						4														1	3
TOTAL FROM ALL CAUSES . . . . .	856	895	93	37	40	40	35	17	20	293	35	38	77	76	81	79	76	62	33	6				426	439
TOTAL FROM ZYMOTIC DISEASES . . . . .	133	140																							
INCLUDING TUBERCULAR DISEASES . . . . .	260	300	5	6	10	14	18	9	12	74	18	13	7	9	4	3	1	3	1					78	55
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	169	207	14	7	11	4	6	4	2	48	3	12	34	24	22	15	8	1	2					83	86
“ “ LOCAL do. . . . .	425	426	34	21	26	19	10	4	6	120	14	12	22	36	45	50	61	45	18	2				198	227
“ “ DEVELOPMENTAL do. . . . .	75	74	38	2	2	2					44			1	3	3		1	8	11	4			29	46
“ “ VIOLENT CAUSES . . . . .	50	46	1			1	1				3		1	13	4	7	11	5	5	1				37	13

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of November, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING NOVEMBER, 1893.			CASES REPORTED DURING NOVEMBER, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	200	....	Diphtheria . . . . .	185	....
Measles . . . . .	44	....	Measles . . . . .	241	....
Small Pox . . . . .	8	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	283	....	Scarlatina . . . . .	228	....
Typhoid Fever . . . . .	110	....	Typhoid Fever . . . . .	89	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of November, 1893, as reported by J. WARREN SMITH, Observer,  
Weather Bureau.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	30.35	46	57	S.W.	.00	Mean Barometer, 30.094.
2	30.19	54	71	S.W.	.00	Highest Barometer, 30.640, on the 26th.
3	30.00	59	76	S.W., W.	.00	Lowest Barometer, 29.505, on the 15th.
4	30.12	43	87	N.	.43	Monthly Range of Barometer, 1.135.
5	30.25	40	80	N.	.22	Mean Temperature, 42.2.
6	30.28	46	66	W.	.00	Highest Temperature, 68.0, on the 3d.
7	30.49	42	65	S.E., N.W.	.00	Lowest Temperature, — 20.0, on the 27th.
8	30.30	42	78	W.	.00	Monthly Range of Temperature, 48.0.
9	30.06	48	68	N.E.	.00	Greatest Daily Range of Temperature, 27.0 on the 17th.
10	30.36	34	68	N.E.	.00	Least Daily Range of Temperature, 6.0 on the 20th.
11	30.41	40	74	W.	.00	Mean Daily Range of Temperature, 14.2.
12	30.42	42	70	S.E.	.00	Mean Daily Dew-point, 31.1.
13	30.11	50	76	S.W.	T	Mean Daily Relative Humidity, 68.6.
14	29.95	50	72	S.W.	T	Prevailing Direction of Wind, S.W.
15	29.61	38	76	W.	.21	Total Movement of Wind, 8,124 Miles.
16	29.84	34	58	W.	.00	Highest Velocity of Wind and Direction, 39 miles S.E. on the 28th.
17	30.04	42	58	S.W.	.00	Number of Foggy Days, 1.
18	29.90	48	58	S.W.	T	Number of Clear Days, 8.
19	30.01	37	70	W.	.00	Number of Fair Days, 13.
20	30.02	35	82	N.W.	.02	Number of Cloudy Days, 9.
21	30.14	36	64	W.	.00	Total Number of Days on which Rain or Snow fell, 9.
22	29.68	46	84	E., S.W.	.56	Depth of unmelted Snow on ground at end of month, 0.
23	29.74	46	68	S.W.	.00	Dates of Auroras, 1st.
24	29.72	38	58	N.W.	.00	Dates of Solar Halos, 14th, 23d.
25	30.23	30	56	W.	.00	Dates of Lunar Halos, 21st.
26	30.59	26	48	N.W.	.00	Thunder storm, 0.
27	30.51	30	66	S.E.	.00	Mean Max. Temp., 49.3.
28	29.74	48	74	S.E., S.W.	.39	COMPARATIVE TEMPERATURE.
29	29.92	46	66	S.W.	.00	1871 . . . . . 37
30	29.84	48	61	W.	.00	1872 . . . . . 40
TOTALS .....	—	—	—	—	1.83	1873 . . . . . 33
MEANS .. ....	30.094	42.2	68.6	S.W.	.061	1874 . . . . . 41
						1875 . . . . . 34
						1876 . . . . . 40
						1877 . . . . . 43
						1878 . . . . . 40
						1879 . . . . . 39
						1880 . . . . . 37
						1881 . . . . . 42
						1882 . . . . . 38
						1883 . . . . . 42
						1884 . . . . . 41
						1885 . . . . . 44
						1886 . . . . . 43
						1887 . . . . . 42
						1888 . . . . . 45
						1889 . . . . . 45
						1890 . . . . . 42
						1891 . . . . . 41
						1892 . . . . . 41
						1893 . . . . . 42

Average mean temperature for 23 years, 41.0.

Average precipitation for 23 years, 4.47.

\*T indicates trace of precipitation.

# HEALTH DEPARTMENT OF THE CITY OF BOSTON.

## Statement of Deaths for the month of December, 1893.

With an enumeration of the more prominent causes; accompanied by an abstract of Meteorological Observations.

Published by order of the Board of Health.

SAMUEL H. DURGIN, M.D.,  
Chairman.

Deaths during the month of December, 1893, . . . . . 1058

Population estimated at 487,397. . . . . Rate per 1,000 inhabitants, 26.04

Total number . . . . . 1058

### SEX.

Males . . . . . 505

Females . . . . . 553

### CONDITION.

Married . . . . . 332

Single . . . . . 513

Widows . . . . . 154

Widowers . . . . . 46

Unknown . . . . . 13

### COLOR.

White . . . . . 1029

Colored . . . . . 29

Total deaths of children { Under 1 year . . . . . 160  
Under 2 years . . . . . 224  
Under 5 years . . . . . 293

Diarrhoeal diseases { Under 1 year . . . . . 3  
Under 2 years . . . . . 6  
Under 5 years . . . . . 7  
All ages . . . . . 8

### NATIVITY.

United States . . . . . 637

Ireland . . . . . 241

England . . . . . 26

Scotland . . . . . 10

Germany . . . . . 16

British America . . . . . 91

Italy . . . . . 4

Other Countries . . . . . 19

Unknown . . . . . 14

### PARENTAGE.

United States . . . . . 247

Irish . . . . . 378

English . . . . . 30

Scotch . . . . . 13

German . . . . . 32

British American . . . . . 63

Italian . . . . . 16

Other Countries . . . . . 84

Mixed . . . . . 70

Unknown . . . . . 125

Still-births during the month . . . . . 61

# Total Deaths with Principal Causes for the month

CAUSES OF DEATH.	Total Mortality for December, 1893.	Total Mortality for December, 1892.	AGE.																			SEX.		
			Under 3 mos.	3 mos. and under 6 mos.	6 months and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.	100 years and over.	Males.	Females.	
I. ZYMOTICS.																								
ALCOHOLISM . . . . .	6	7											3	2	1								4	2
CROUP . . . . .	13	12			1	6	2	2		11	2											5	8	
CARBUNCLE . . . . .																								
CHOLERA MORBUS . . . . .																								
CHOLERA INFANTUM . . . . .	3			1		2				3												2	1	
CEREBRO-SPINAL MENINGITIS . . . . .		1																						
CONGESTIVE FEVER . . . . .																								
DIARRHŒA . . . . .	4	3	2							1	3								1			2	2	
DYSENTERY . . . . .	1	2				1				1													1	
DIPHTHERIA . . . . .	60	52			5	9	9	10	4	37	20	1	1	1								30	30	
ERYSIPELAS . . . . .	8	5	1				1			2			4		2							2	6	
INTERMITTENT FEVER . . . . .																								
INFLUENZA . . . . .	28	1						1		1	1	1	1	2	2	2	5	7	6			11	17	
MEASLES . . . . .	1	3							1	1												1		
PURPURA . . . . .		1																						
PUERPERAL FEVER . . . . .	2	4											1	1									2	
PTÆMIA . . . . .		1																						
REMITTENT FEVER . . . . .																								
RHEUMATISM . . . . .	2	1														1	1						2	
SCARLATINA . . . . .	24	25			1	5	6	3	1	16	5	2	1									13	11	
SMALL POX . . . . .	4		1							1		1	2										4	
SYPHILIS (CONGENITAL) . . . . .																								
SYPHILIS . . . . .	1															1						1		
SEPTICÆMIA . . . . .	3	6											1	1	1							1	2	
TONSILLITIS . . . . .																								
TYPHOID FEVER . . . . .	6	15											2	2	2							6		
TYPHUS FEVER . . . . .																								
WHOOPING COUGH . . . . .	7	2	1	3	1	2				7												3	4	
YELLOW FEVER . . . . .																								
OTHER ZYMOTIC DISEASES . . . . .	2				1					1			1									1	1	
II. CONSTITUTIONAL.																								
CANCER . . . . .	31	31											2	7	2	7	7	5	1			9	22	
HYDROCEPHALUS AND TUBERC. MENINGITIS . . . . .	12	23		1	3	3	1	1		9		1	2									7	5	
MARASMUS, SCROFULA AND TABES MESENTERICA . . . . .	26	12	13	5	2	2				22								2	1	1		11	15	
PHTHISIS PULMONALIS . . . . .	98	116			1		1			2		6	28	28	19	7	6	2				55	43	
OTHER CONSTITUTIONAL DISEASES . . . . .	14	20		1			1			2	2	3	4	2				1				5	9	





# SANITARY STATISTICS OF BOSTON, MASS.

## DECEMBER, 1893.

STREET GRADES BY WARDS.			
WARDS.		HIGHEST STREET GRADE.	LOWEST STREET GRADE.
Ward	1	86	16
"	2	64	16
"	3	74	17
"	4	108	16
"	5	68	17
"	6	55	15
"	7	48	15
"	8	42	15
"	9	106	17
"	10	106	17
"	11	31	14
"	12	31	15
"	13	31	16
"	14	71	16
"	15	95	14
"	16	24	12
"	17	18	13
"	18	18	16
"	19	60	17
"	20	116	14
"	21	149	28
"	22	164	17
"	23	301	35
"	24	165	14
"	25	174	13

Area of City, 37 Square miles.

" " " Acres, 23,707.

Miles of Streets, 558; paved 71.25; macadamized, 204.56; gravel, etc., 282.19.

Area of Parks 1,669 acres; Public Grounds 143 acres.

Number of Dwellings, (including tenement houses), 56,809.

" " Tenement Houses (three or more families), 10,763.

Daily Consumption of Water, 44,500,000 gallons.

Daily Capacity of Water Supply, 60,000,000 "

Storage Reservoirs, 7.

Reservoir Capacity, 5,000,000,000 gallons.







of December, Classified by Cause, Age and Sex.

CAUSES OF DEATH.			AGE.																	SEX.			
	Total Mortality for December, 1893.	Total Mortality for December, 1892.																		Males.	Females.		
			Under 3 mos. 3 mos. and under 6 mos.	6 mos. and under 1 year.	1 year and under 2 yrs.	2 years and under 3 yrs.	3 years and under 4 yrs.	4 years and under 5 yrs.	Total under 5 years.	5 years and under 10 yrs.	10 years and under 20 yrs.	20 years and under 30 yrs.	30 years and under 40 yrs.	40 years and under 50 yrs.	50 years and under 60 yrs.	60 years and under 70 yrs.	70 years and under 80 yrs.	80 years and under 90 yrs.	90 years and under 100 yrs.			100 years and over.	
III. LOCAL.																							
ATOPLECTY . . . . .	47	40											1	2	2	9	16	12	5		20	27	
BRIGHT'S DISEASE . . . . .	16	17													2	4	6	4			9		
BRONCHITIS . . . . .	58	51	4	3	7	10	1		1	26			1	1	1	2	8	12	6	1	24	34	
HEART DISEASE . . . . .	81	77	1							1	2	2	2	14	12	17	18	9	4		39	42	
MENINGITIS . . . . .	20	25	1	1	5	3	3	1		14			2	1	1	1	1				11	9	
NEPHRITIS . . . . .	14	21									1		1		2	2	7	1			7	7	
PLEURISY . . . . .	2	3									1			1							2		
PNEUMONIA . . . . .	202	144	7	4	7	13	3	5	1	40	4	5	16	26	36	17	16	22	17	3	96	106	
OTHER LOCAL DISEASES . . . . .	124	139	16	2	7	7	7	1		40	2	7	10	9	10	14	15	11	4	2	64	60	
IV. DEVELOPMENTAL.																							
CYANOSIS . . . . .	1	2	1							1												1	
INANITION . . . . .	9	12	8							8				1							5	4	
OLD AGE . . . . .	30	24															3	13	9	5	10	20	
PREMATURE BIRTH . . . . .	13	22	13							13											6	7	
PUERP'L DISEASES (not including Puerp'l Fever)	6	6											3	3								6	
OTHER DEVELOPMENTAL DISEASES . . . . .	30	25	21	4	1					26					1	1		2			16	14	
V. VIOLENT.																							
ACCIDENTAL . . . . .	34	35	2			1		1		4			10	5	6	2	2	4	1		21	13	
HOMICIDAL . . . . .	2	1														1		1				2	
SUICIDAL . . . . .	7	10											1	2	1	1	2				5	2	
OTHER VIOLENT CAUSES . . . . .	5	3													3	1	1					5	
UNKNOWN CAUSES . . . . .	1			1						1											1		
TOTAL FROM ALL CAUSES . . . . .	1058	1000	92	26	42	64	35	26	8	293	40	29	109	111	107	89	114	108	55	12		505	553
TOTAL FROM ZYMOTIC DISEASES . . . . .	175	141	5	4	9	25	18	17	6	84	23	5	17	9	9	3	6	7	7		82	91	
INCLUDING TUBERCULAR DISEASES . . . . .	255	219																					
TOTAL FROM CONSTITUTIONAL DISEASES . . . . .	181	202	13	7	6	5	3	1		35	2	10	36	37	21	14	13	10	2	1	87	94	
“ “ LOCAL do. . . . .	564	517	29	10	26	33	14	7	2	121	10	14	33	54	66	66	87	71	36	6	272	292	
“ “ DEVELOPMENTAL do. . . . .	89	91	43	4	1					48			3	4	1	1	3	15	9	5	37	52	
“ “ VIOLENT CAUSES . . . . .	48	49	2			1		1		4			11	7	10	5	5	5	1		26	22	

Comparative Statement of Cases of Contagious Disease reported to the Board of Health for the month of December, 1893, and for the corresponding month in 1892.

CASES REPORTED DURING DECEMBER, 1893.			CASES REPORTED DURING DECEMBER, 1892.		
	City.	Quarantine.		City.	Quarantine.
Diphtheria . . . . .	186	....	Diphtheria . . . . .	175	....
Measles . . . . .	62	....	Measles . . . . .	380	1
Small Pox . . . . .	17	....	Small Pox . . . . .	....	....
Scarlatina . . . . .	238	....	Scarlatina . . . . .	269	....
Typhoid Fever . . . . .	59	....	Typhoid Fever . . . . .	43	....
Typhus Fever . . . . .	....	....	Typhus Fever . . . . .	....	....
Yellow Fever . . . . .	....	....	Yellow Fever . . . . .	....	....

# METEOROLOGICAL OBSERVATIONS TAKEN AT THE WEATHER BUREAU STATION, BOSTON.

For the month of December, 1893, as reported by J. W. SMITH, L. F. O.

DATE.	DAILY MEAN BAROMETER.	DAILY MEAN TEMPERATURE.	DAILY MEAN HUMIDITY.	PREVAILING DIRECTION OF WIND.	DAILY RAIN FALL.	GENERAL ITEMS.
1	29.53	40	72	S.W.	.36	Mean Barometer, 30.09. Highest Barometer, 30.88, on the 14th.
2	30.25	28	56	W.	.00	Lowest Barometer, 29.37, on the 16th.
3	29.95	33	96	N.W.	.90	Monthly Range of Barometer, 1.51.
4	30.12	28	88	N.W.	.79	Mean Temperature, 30.4.
5	30.21	18	89	N.	.57	Highest Temperature, 57.0, on the 25th.
6	30.23	29	74	W.	.26	Lowest Temperature, — zero, on the 14th.
7	30.31	30	78	W.	.00	Monthly Range of Temperature, 57.0.
8	30.41	29	64	N.W.	.00	Greatest Daily Range of Temperature, 27.0 on the 21st.
9	30.14	35	88	S.W.	.33	Least Daily Range of Temperature, 8.0 on the 5th.
10	29.76	41	76	S.W.	.03	Mean Daily Range of Temperature, 14.5.
11	30.16	22	42	W.	.00	Mean Daily Dew-point, 22.3.
12	30.05	23	66	N.W.	.02	Mean Daily Relative Humidity, 73.4.
13	30.66	9	51	N.W.	.60	Prevailing Direction of Wind, W.
14	30.78	8	50	W.	T	Total Movement of Wind, 8,760 Miles.
15	30.19	21	96	N.	.61	Highest Velocity of Wind and Direction, 48 miles W. on the 11th.
16	29.62	37	96	N.W.	.82	Number of Foggy Days, 2.
17	29.67	36	80	W.	.08	Number of Clear Days, 8.
18	29.96	22	71	W.	.00	Number of Fair Days, 9.
19	29.76	34	90	S.W.	.07	Number of Cloudy Days, 14.
20	30.24	24	52	W.	.00	Total Number of Days on which Rain or Snow fell, 19.
21	30.16	30	53	S.W.	.00	Depth of unmelted Snow on ground at end of month, 3.2.
22	30.38	33	80	W.	T	Dates of Auroras, none.
23	30.14	44	84	W.	.03	Dates of Solar Halos, 27th.
24	30.17	48	74	W.	.00	Dates of Lunar Halos, 21st, 28th.
25	29.87	52	76	S.W.	.00	Thunder storm, 0.
26	30.09	24	56	N.W.	.00	Mean Max. Temp., 37.6.
27	30.06	28	60	W.	.00	Dates of Frosts, 0.
28	29.72	34	68	S.W.	T	Mean Min. Temp., 23.1.
29	29.66	44	73	S.W.	.06	COMPARATIVE TEMPERATURE.
30	30.08	28	83	N.	.14	1871 . . . . . 28
31	30.22	22	82	N.W.	.09	1872 . . . . . 24
TOTALS .....	—	—	—	—	5.16	1873 . . . . . 31
MEANS .....	30.09	30.4	73.4	W.	.166	1874 . . . . . 31
						1875 . . . . . 29
						1876 . . . . . 22
						1877 . . . . . 35
						1878 . . . . . 30
						1879 . . . . . 32
						1880 . . . . . 26
						1881 . . . . . 38
						1882 . . . . . 30
						1883 . . . . . 29
						1884 . . . . . 33
						1885 . . . . . 33
						1886 . . . . . 29
						1887 . . . . . 32
						1888 . . . . . 36
						1889 . . . . . 38
						1890 . . . . . 26
						1891 . . . . . 40
						1892 . . . . . 30
						1893 . . . . . 30

Average mean temperature for 23 years, 31.0.

Average precipitation for 23 years, 3.41.

\*T indicates trace of precipitation.

# SUMMARY OF DEATHS IN BOSTON.

With Principal Causes, for the year 1893. Compared with those of 1892.

Published by order of the Board of Health.

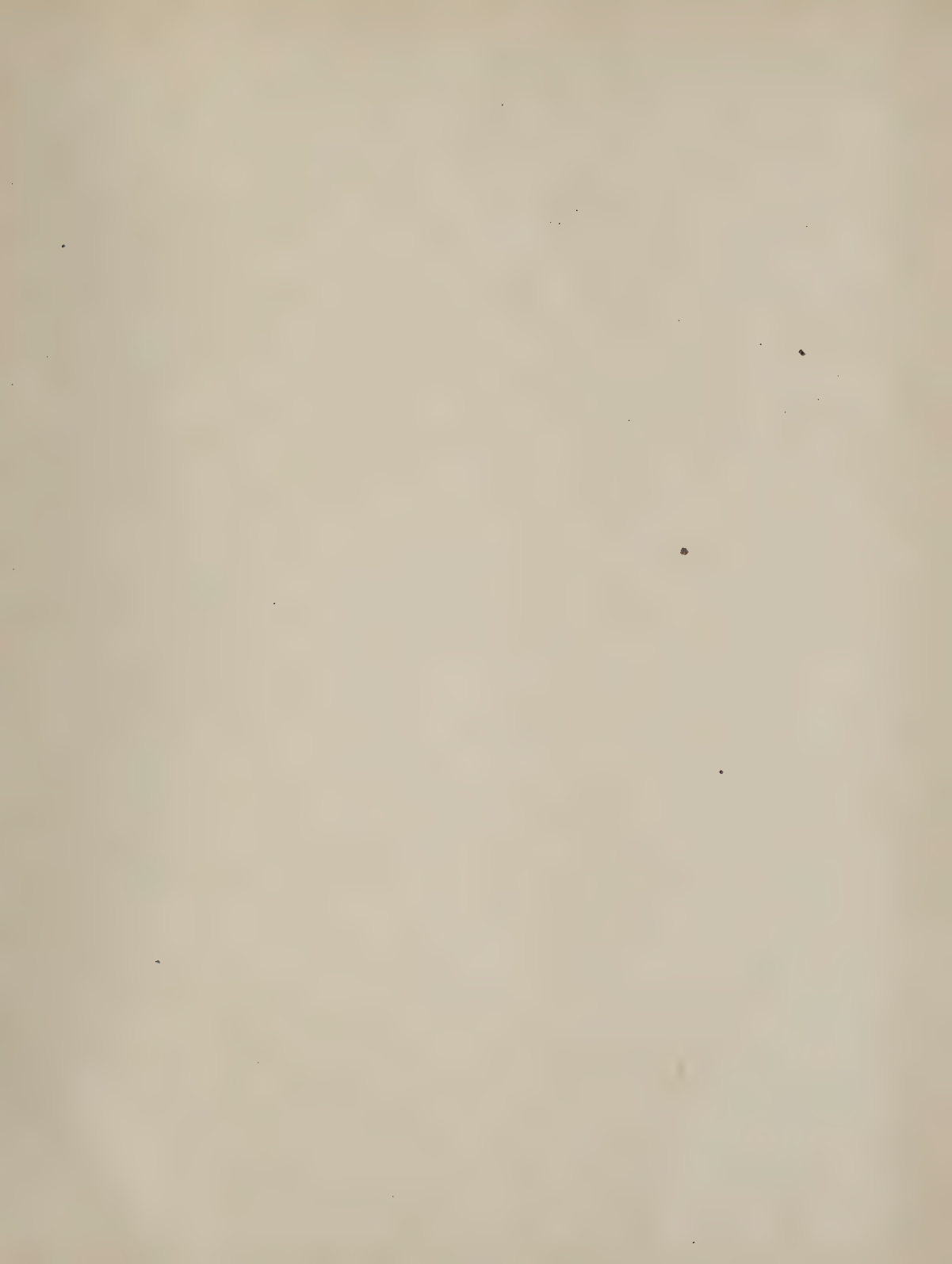
SAMUEL H. DURGIN, M.D.,

*Chairman.*

	1893.	1892.		1893.	1892.
Total No. of deaths from all causes . .	11,710	11,236	Influenza . . . . .	68	97
Population (estimated) . . . . .	487,397	469,647	Intermittent Fever . . . . .	6	—
Annual death rate per 1000 inhabitants	24.02	23.92	Measles . . . . .	27	19
Total No. from Zymotic diseases . .	2,042	2,014	Purpura . . . . .	7	3
Percentage of deaths from Zymotic dis-			Puerperal Fever . . . . .	28	28
eases to total mortality . . . . .	17.43	17.92	Pyæmia . . . . .	13	9
Total No. of Still-births . . . . .	605	633	Remittent Fever . . . . .	2	1
Total deaths of children under 1 year .	2,531	2,466	Rheumatism . . . . .	32	43
“ “ “ “ 2 years . . . . .	3,209	3,086	Scarlatina . . . . .	248	262
“ “ “ “ 5 years . . . . .	3,987	3,735	Small Pox . . . . .	4	—
Percentage of deaths under 5 years to			Syphilis (congenital) . . . . .	18	12
total mortality . . . . .	34.04	33.24	Syphilis . . . . .	8	3
Total No. of deaths from diarrhœal dis-			Septicæmia . . . . .	43	28
eases, under 5 years . . . . .	559	621	Tonsillitis . . . . .	3	9
Total No. of deaths from diarrhœal dis-			Typhoid Fever . . . . .	148	137
eases, all ages . . . . .	635	693	Typhus Fever . . . . .	—	—
Percentage of deaths from diarrhœal dis-			Whooping Cough . . . . .	40	45
eases to total mortality . . . . .	5.4	6.16	Yellow Fever . . . . .	—	—
Alcoholism . . . . .	84	72	Other Zymotic Diseases . . . . .	8	19
Croup . . . . .	70	67	Cancer . . . . .	310	328
Carbuncle . . . . .	3	4	Phthisis Pulmonalis . . . . .	1,364	1,414
Cholera Morbus . . . . .	14	23	Bright's Disease . . . . .	168	158
Cholera Infantum . . . . .	499	563	Bronchitis . . . . .	507	557
Cerebro Spinal Meningitis . . . . .	15	12	Heart Disease . . . . .	785	890
Diarrhœa . . . . .	83	77	Pneumonia . . . . .	1,540	1,122
Dysentery . . . . .	39	30	Old Age . . . . .	275	258
Diphtheria . . . . .	476	414	Violent Deaths . . . . .	572	519
Erysipelas . . . . .	56	37			















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